Human OTULIN haploinsufficiency impairs cell-intrinsic immunity to staphylococcal α-toxin

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Abstract

The molecular basis of interindividual clinical variability upon infection with *Staphylococcus aureus* is unclear. We describe patients with haploinsufficiency for the linear deubiquitinase OTULIN, encoded by a gene on chromosome 5p. Patients present episodes of life-threatening necrosis, typically triggered by *S. aureus* infection. The disorder is phenocopied in patients with the 5p- (Cri-du-Chat) chromosomal deletion syndrome. OTULIN haploinsufficiency causes an accumulation of linear ubiquitin in dermal fibroblasts, but TNF-receptor NF-κB-signaling remains intact. Blood leukocyte subsets are unaffected. The OTULIN-dependent accumulation of caveolin-1 in dermal fibroblasts — but not leukocytes — facilitates the cytotoxic damage inflicted by the staphylococcal virulence factor α-toxin. Naturally elicited antibodies against α-toxin contribute to incomplete clinical penetrance. Human OTULIN haploinsufficiency underlies life-threatening staphylococcal disease by disrupting cell-intrinsic immunity to α-toxin in non-leukocytic cells.

One-line summary

OTULIN haploinsufficiency underlies life-threatening staphylococcal disease by disrupting cell-intrinsic immunity to α-toxin.

Main

Staphylococcus aureus is a major bacterial pathogen with a global impact on human health (*1*). Individuals with staphylococcal disease may present a range of superficial (folliculitis, cellulitis, abscesses) to severe (e.g. necrotizing skin and soft tissue infections and necrotizing pneumonia, with or without septicemia) manifestations (*1*). Most individuals carry *S. aureu*s asymptomatically on their skin and in their nostrils for long periods of their lives, but only a minority develop life-threatening staphylococcal disease. Severe disease has a poor prognosis, owing to its rapid invasive course (*2-5*). Acquired risk factors for staphylococcal disease include surgery and intravascular devices (*1*). Life-threatening staphylococcal disease can also result from single-gene inborn errors of immunity (IEIs) (*6*). Disorders affecting phagocyte development or function, such as severe congenital neutropenia, chronic granulomatous disease, and leukocyte adhesion deficiency, confer a predisposition to staphylococcal disease (*6, 7*). Disorders of the Toll-like receptor (TLR) and interleukin (IL)-1R nuclear factor-kappa B (TIR-NF-κB) pathway (*8-12*) and of IL-6- and STAT3-dependent immunity (*13-17*) have also been identified in patients suffering from severe staphylococcal disease. All these defects preferentially affect innate, myeloid immunity, but, collectively, they account for only a small proportion of cases (*18*). Most cases of severe staphylococcal disease remain unexplained, because they strike otherwise healthy individuals with no detectable phagocyte defect (*2, 19*). Here, we aimed to elucidate human genetic and immunological etiologies of life-threatening staphylococcal disease.

Results

Genome-wide enrichment in rare OTULIN variants

Given the severity of their disease, we hypothesized that there would be at least some genetic homogeneity in our cohort of patients with unexplained life-threatening staphylococcal disease. We sequenced the exomes of the *N*=105 index cases. Given the rarity of severe staphylococcal disease in

otherwise healthy individuals, and assuming a dominant mode of inheritance, we hypothesized that the disease-causing variants would be very rare (minor allele frequency (MAF) < $1x10^{-5}$) (*20*). We also prioritized variants predicted to be deleterious (combined annotation-dependent depletion score (CADD) > mutation significance cutoff (MSC)) (*21-23*). We performed the same analysis on *N*=1,274 control exomes from patients with mycobacterial diseases (including individuals with Mendelian susceptibility to mycobacterial disease or with tuberculosis), which rarely overlap with staphylococcal disease (*24*). After adjusting for ethnicity by principal component analysis (PCA), we used the results of these two analyses to test the null hypothesis that variants of a given gene were not specific to staphylococcal disease. *OTULIN* was the only gene satisfying the threshold for statistical significance on a genome-wide level with a *P*-value of $5.74x10^{-7}$ (Figure 1A, Tables S1, 2). We repeated our analysis for *OTULIN,* adding 2,504 individuals from the 1,000 Genomes Project (*25*) to our control dataset (*26*); none of these individuals had developed life-threatening infections with *S. aureus*. The enrichment in *OTULIN* variants was even stronger (P=$3.85x10^{-8}$) in this analysis, indicating that very rare variants of this gene were found specifically in patients with severe staphylococcal disease.

The patients carry heterozygous OTULIN variants

The linear deubiquitinase OTULIN is a negative regulator of inflammation (*27, 28*). In humans, biallelic *OTULIN* mutations cause a potentially fatal early-onset autoinflammatory condition called OTULIN-related autoinflammatory syndrome (ORAS) (*29-33*). Closer inspection revealed that the signal for genetic homogeneity in the cohort of patients with severe staphylococcal disease was driven by three probands carrying heterozygous variants of *OTULIN* (Figure 1B): one missense (p.D246V), one nonsense (p.E95X), and one frameshift (p.D268TfsX5) variant. In each of these probands, the clinical hallmark of disease following infection with *S. aureus* was life-threatening necrosis of the skin and/or lungs (Figure S1A; SM). Based on the extreme inflammatory responses to

infection with *S. aureus* in these patients, we investigated the possibility of other triggers generating similar disease. We identified three additional kindreds with very rare heterozygous missense variants of *OTULIN* (p.N341D, p.P254S, and p.R263Q) (Figure 1C). The probands of these kindreds presented severe diseases triggered by infectious and unknown etiologies (Figure S1B; SM). The clinical course of disease in patients with no documented infection suggests that low-grade infections, or non-infectious triggers, might induce an inflammatory phenotype similar to that of patients with documented *S. aureus* infection (Figure S1A, B; SM). In total, we identified six very rare variants in seven patients from six kindreds (Figure S1C). These seven patients did not carry variants fitting the known modes of inheritance for any of the 430 genes already implicated in IEIs (*7, 34*). In most patients, the first episode of disease occurred during adolescence (SM). Clinical data indicated a degree of phenotypic heterogeneity in the index cases, but with the skin and/or lungs consistently affected in all cases (Figure 1B, C, S1A, B; SM). One third of the heterozygous relatives (three of the nine for whom data were available) expressed a related but milder phenotype, the other six carriers being apparently healthy (Figure 1B, C; SM). We then hypothesized that the parents of the patients with biallelic OTULIN deficiency reported in previous studies (*29-32*), who themselves carried deleterious *OTULIN* alleles in the heterozygous state, might present phenocopies of the disorder observed in the patients of our cohort. One third of the parents (three of the 10) did, indeed, express the phenotype (Figure 1D; SM). Thus, very rare heterozygous mutations of *OTULIN* confer predisposition to severe necrosis of the skin and lungs, typically, but not exclusively, after infection with *S. aureus*, with variable expressivity and incomplete penetrance.

OTULIN is subject to negative selection

The severity of disease in the probands carrying very rare heterozygous *OTULIN* variants suggests that this gene is subject to evolutionary forces acting at the population level. Indeed, the *f*

parameter score for *OTULIN* is 0.36, indicating that this gene is under negative selection (Figure S1D) (*35*). Moreover, the consensus score for negative selection (CoNeS) for *OTULIN* is -0.78, within the reported range for genes underlying IEIs with both autosomal dominant (AD) and autosomal recessive (AR) inheritance (Figure S1E) (*36*). *OTULIN* has a LoFtool score of 0.115, suggesting that it does not tolerate haploinsufficiency (*37*). Predicted loss-of-function (pLOF) *OTULIN* variants are very rare in the general population, with a cumulative MAF of $1x10^{-4}$ (Figure S1F) (*20*). Consistent with the negative selection pressure acting on *OTULIN*, the alleles of the patients were found to be either ultra-rare or private (Figure S1F) (*20*). These population genetics parameters indicate that heterozygous pLOF variants of *OTULIN* are disadvantageous for the individual. This finding is consistent with the hypothesis that the very rare variants for which enrichment was detected in the patients studied are causal for the life-threatening necrosis of the skin and/or lungs triggered by *S. aureus* infection.

The OTULIN alleles of the patients are severely hypomorphic or amorphic

We overexpressed the cDNAs corresponding to the *OTULIN* alleles of the patients in HEK293T cells. The truncated cDNAs of the patients were loss-of-expression, whereas the missense cDNAs of the patients and cDNAs corresponding to two *OTULIN* alleles commonly found in the general population (*20*) were expressed at normal levels (Figure S1G). No in-frame re-initiation was observed for truncated alleles from the patients (Figure S1H). We then assessed the deubiquitinase activity of the products of the alleles from the patients, and their capacity to inhibit NF-κB-signaling. Consistent with published findings in overexpression systems, some, but not all the protein products of the alleles concerned were defective for the linear deubiquitination of NEMO in the presence of LUBAC (Figure S1I) (*32, 33*). We assessed the capacity of the gene products to regulate receptor signaling, by investigating the functional consequences of the *OTULIN* alleles of the patients for NF-κB inhibition following stimulation with TNF in a cellular signaling system. All the alleles from

patients were severely hypomorphic or amorphic (Figure S1J). By contrast to the alleles of the patients, the two alleles common in the general population (*20*) were found to be isomorphic (Figure S1J). The apparent differences between the two overexpression systems may reflect different impacts of the various OTULIN alleles on ubiquitin binding capacity (*27, 32, 33*). We then performed functional tests for all the other *OTULIN* coding sequence variants reported in public databases (*N*=120) (*20*). The cumulative MAF of amorphic and hypomorphic *OTULIN* alleles (with <25% wild-type levels of NF-κB-signaling inhibitory activity) in the general population was $6x10^{-5}$ (Figure 1E). The greater rarity of amorphic and hypomorphic *OTULIN* alleles than of pLOF variants highlights the importance of experimental validation for pLOF variants. Thus, the rare *OTULIN* variants found in the patients are deleterious and AD OTULIN deficiency predisposes the patients to disease.

Autosomal dominant OTULIN deficiency acts via haploinsufficiency

We tested the genetic mechanism of AD OTULIN deficiency and found no negative dominance for the alleles expressed by the patients (Figure S1K). This implies that the genetic mechanism underlying AD OTULIN deficiency is haploinsufficiency. *OTULIN* is located on the short arm of chromosome 5. Depending on the breakpoint, almost all individuals with 5p- syndrome — the most common chromosomal deletion syndrome in humans, also known as Cri-du-Chat syndrome — are haploinsufficient for OTULIN by definition (*38-40*). The prevalence of 5p- syndrome is ~1 in 50,000 live births, similar to the cumulative MAF for amorphic and hypomorphic *OTULIN* alleles (Figure 1E) (*41*). Respiratory tract infections are one of the principal causes of hospitalization in individuals with 5p- syndrome, and pneumonia is amongst the commonest causes of death in these individuals (*40, 42-44*). We recruited six 5p- syndrome patients with a breakpoint centromeric to *OTULIN* (Figure 1F, S1L). Expressivity was variable and penetrance was incomplete, but one third of these OTULIN haploinsufficient 5p- syndrome patients (two of six) presented an age-dependent

phenocopy of the disorder observed in patients with heterozygous *OTULIN* mutations (Figure 1F; SM). We also identified two individuals from a multigeneration kindred affected by 5p- syndrome with an extremely rare breakpoint telomeric to *OTULIN* (Figure 1G, S1L) (*38*). Both these individuals carried two copies of *OTULIN* and did not display the phenotype studied here (SM). The clinical similarities between patients with heterozygous *OTULIN* mutations and those with 5p- syndrome suggest a common mechanism of predisposition to infection due to haploinsufficiency for OTULIN.

Immunological characterization of OTULIN-haploinsufficient PBMCs

The autoinflammatory features seen in ORAS patients are largely driven by abnormally high levels of NF-κB activation in myeloid cells (*29, 30, 33*). We thus investigated whether patients with OTULIN haploinsufficiency presented any related immunological disturbances. OTULIN expression in monocytes differed between patients and healthy controls (Figure S2A). Routine immunological tests performed in diagnostic laboratories (including assessments of leukocyte differentiation and oxidative burst capacity — deficiencies of which are known to confer a predisposition to staphylococcal disease (*6, 7*)) revealed no explanatory defects in patients with OTULIN haploinsufficiency (SM). We thus looked for more subtle immunological features, by testing PBMCs from the patients by mass cytometry (cytometry by time-of-flight, CyTOF) (*45*) and RNA sequencing. In comparisons with healthy controls, we observed no differences in the abundance of leukocyte subsets or in the expression of lineage markers (Figure 2A, S2B-D). The development of myeloid and lymphoid subsets in patients with OTULIN haploinsufficiency was, therefore, apparently normal. At baseline, we observed a complex transcriptional signature not associated with NF-κB-driven inflammation in the PBMCs of the patients (Figure 2B, S2E). This difference between the patients and healthy controls disappeared following stimulation (Figure 2B). Both at baseline and after stimulation, the PBMCs of the patients had a capacity to secrete various cytokines, including TNF and IL-1β,

similar to that of PBMCs from healthy controls (Figure S2F). We detected no defect of IL-6 production (Figure S2F), deficiencies of which are known to be associated with staphylococcal disease (*6*). Single-cell RNA sequencing revealed a contribution of $CD14^+$ monocytes to the transcriptional signature in the PBMCs of the patients relative to healthy controls (Figure S2G, H). However, consistent with their capacity to produce normal amounts of TNF and IL-1β (Figure S2I), the amounts of phosphorylated P65 in $CD14^+$ monocytes from the patients were normal both at baseline and following stimulation (Figure S2J). The $CD14^+$ monocytes of patients with OTULIN haploinsufficiency, thus, did not appear to be functionally affected. Finally, induced pluripotent stem cell (iPSC)-derived macrophages from patients had normal oxidative burst and phagocytic capacities relative to healthy controls (Figure S2K, L). These observations suggest an absence of overt immunological disturbance in patients with OTULIN haploinsufficiency, contrasting with the autoinflammatory markers described in ORAS patients (*29-33*).

OTULIN gene dosage-dependent accumulation of linear ubiquitin in fibroblasts

We next performed a biochemical characterization of the non-hematopoietic compartment in the patients and assessed the levels of *OTULIN* expression in primary dermal fibroblasts (PDFs). *OTULIN* mRNA levels varied (Figure S3A, B), but the levels of the corresponding protein were low in the patients and depended on the nature of the mutation (Figure 3A, B). OTULIN haploinsufficiency led to an accumulation of aggregates containing linear ubiquitin (M1-Ub) in immortalized fibroblasts from patients, including 5p- syndrome patients with a breakpoint centromeric to *OTULIN* (Figure 3C, D, S3C). These aggregates were sensitive to treatment with exogenous OTULIN (Figure S3D), and their accumulation was rescued by genetic complementation with wild-type *OTULIN* (Figure 3E, S3E). We used a combination of an M1-Ub-selective tandem Ub-binding entity (TUBE) and absolute quantification (AQUA) tandem mass spectrometry (MS/MS) to assess M1-Ub levels in immortalized

283 fibroblasts from the patients. M1-Ub levels were much higher in the cells of both ORAS and OTULIN-
284 haploinsufficient patients than in those of healthy controls and HOIL1-deficient patients (Figure 3F)
285 (*46*). Thus, OTULIN haploinsufficiency and recessive deficiency result in the cellular accumulation
286 of M1-Ub in a gene dosage-dependent manner.
287
288 ***Normal TNF-receptor signaling in OTULIN-haploinsufficient fibroblasts***
289 In the PDFs of ORAS patients, expression of the components of the linear ubiquitin assembly
290 complex (LUBAC) decreases to compensate for recessive OTULIN deficiency (Figure 3A) (*29, 30,*
291 *32*). This compensatory mechanism impaired TNF-receptor signaling in immortalized fibroblasts from
292 ORAS patients (Figure S3F). By contrast, OTULIN haploinsufficiency did not lead to a loss of
293 LUBAC expression in PDFs (Figure 3A), or to impaired TNF-receptor signaling (Figure S3F) or IL-
294 6 and IL-8 secretion (Figure S3G). Indeed, no differential transcription patterns were evident in the
295 patients' PDFs after stimulation with TNF (Figure S3H). The impairment of early NF-κB activation
296 sensitizes PDFs from ORAS and LUBAC-deficient patients to TNF-induced apoptotic cell death under
297 stress conditions (*29, 46*). However, consistent with their normal LUBAC expression, PDFs from
298 patients with OTULIN haploinsufficiency were not susceptible to stress-induced apoptosis upon
299 exposure to TNF (Figure S3I). Thus, the functional dysregulation of TNF-receptor signaling via NF-
300 κB is limited to fibroblasts displaying a recessive OTULIN deficiency.
301
302 ***Global dysregulation of transcription in OTULIN-haploinsufficient fibroblasts***
303 The presence of a biochemical phenotype in the absence of an immunological phenotype
304 following stimulation in OTULIN-haploinsufficient fibroblasts led us to investigate transcriptional
305 homeostasis in resting PDFs from the patients. Consistent with the gene dosage-dependent
306 accumulation of M1-Ub in immortalized fibroblasts, this approach revealed a continuous genotype-

dependent transcriptional phenotype in the basal state (Figure 4A). Despite an absence of functional consequences of OTULIN haploinsufficiency (Figure S3F-I), specific gene-set enrichment analyses of the resting transcriptome revealed a subtle signal for TNF-receptor signaling via NF-κB (Figure S4A). These analyses also revealed a transcriptional signature affecting various other cellular processes relative to cells from healthy controls (Figure S4A) (*47*). The affected processes included the MYC and E2F transcription factor systems and the G2M cell cycle checkpoint system, the gene sets for these systems displaying a partial overlap (Figure S4B). These findings indicate a global dysregulation of transcription in resting OTULIN-haploinsufficient fibroblasts.

Accumulation of caveolin-1 in OTULIN-haploinsufficient fibroblasts

The observed patterns of transcription could not be explained by the known function of OTULIN as a linear deubiquitinase. We thus hypothesized that OTULIN haploinsufficiency affects cellular homeostasis posttranslationally, in an as yet unknown manner. The proteome of the resting PDFs from the patients displayed a continuous cellular phenotype, consistent with the transcriptome (Figure 4B, S4C). Focusing on this continuous proteomic phenotype, we observed a pattern of differential abundance for a cluster of 11 proteins including caveolin-2 and gelsolin (Figure S4D-F). A STRING-interaction network analysis of this protein cluster identified a node connecting caveolin-2 and gelsolin: caveolin-1 (Figure 4C). Conventional techniques revealed the accumulation of SDS-resistant high-molecular weight (MW) caveolin-1-containing complexes (*48, 49*) in PDFs from the patients in comparison with those from healthy controls (Figure 4D, E). We analyzed caveolin-1 immunopurification products (IPs) from PDF whole-cell lysates (WCLs) from one healthy control and one patient with recessive OTULIN deficiency by liquid chromatography and tandem mass spectrometry (LC-MS/MS). Validating the STRING-interaction network (Figure 4C), both sets of caveolin-1 IPs also contained caveolin-2, whereas gelsolin was detected in the OTULIN-deficient

sample only (Figure S4G). Caveolin-1 levels vary between cell types and are highest in structural cells, such as fibroblasts (*50, 51*). By contrast to our observations for PDFs, caveolin-1 was barely detectable in hematopoietic cells and the abundance of caveolin-1 in monocytes did not differ between OTULIN haploinsufficient patients and healthy controls (Figure S4H). We detected no accumulation of caveolin-1-containing complexes in PDFs from the 5p- syndrome patient carrying two copies of the *OTULIN* gene relative to healthy controls (Figure 4E, S4I). However, as in PDFs from the patients, caveolin-1 accumulated as a high-MW complex in an isogenic *OTULIN*-knockout PDF cell line (Figure 4F; Figure S4J). Thus, OTULIN haploinsufficiency results in a selective accumulation of high-MW caveolin-1 in PDFs.

Lysine-63-linked polyubiquitination of caveolin-1

The differences in gelsolin abundance in PDFs were attributed to differences in *GSN* transcription, but no differential transcription was detected for *CAV1* and *CAV2* (Figure S5A). Caveolin-1 is a key component of cell membrane microdomains, in which it acts as a scaffold for other proteins and receptors (*47, 52*). A signal for plasma membrane disturbance was detected at the proteomic but not transcriptional level in the patients' PDFs (Figure S5B), suggesting a post-translational role for OTULIN in the regulation of caveolin-1 expression in PDFs. Caveolin-1 is decorated with ubiquitin (*48, 49, 53*). We hypothesized that OTULIN haploinsufficiency and recessive deficiency affect the ubiquitination status of caveolin-1. We found that caveolin-1 IPs from PDF-WCLs from one healthy control and one patient with recessive deficiency of OTULIN contained a high-MW ubiquitin-containing complex (Figure S5C). We then used LC-MS/MS to characterize the ubiquitination profiles of purified caveolin-1 in solution, in the high-MW complex fraction, and in the monomeric fraction. Lysine-48-linked polyubiquitin (K48-Ub) chains were conjugated to the high-MW caveolin-1-containing complex regardless of genotype (Figure S5D). We detected no M1-Ub in

any of the caveolin-1 IP fractions (Figure S5C, D). Instead, the high-MW caveolin-1-containing complex was abundantly decorated with lysine-63-linked polyubiquitin (K63-Ub) chains in the OTULIN-deficient sample, but not in the healthy control (Figure 5A, S5C) (*49*). No other branched polyubiquitin linkages were detected in the caveolin-1 IP fractions. The remaining unmodified ubiquitin was probably conjugated as a monomer to caveolin-1 (Figure S5D) (*53*). The OTULIN-dependent accumulation of caveolin-1 complexes modified with K63-Ub but not M1-Ub chains indicates crosstalk between OTULIN and other ubiquitin ligases and/or hydrolases.

CYLD binds linear ubiquitin

We characterized the crosstalk between OTULIN and K63-Ub chains, by treating purified caveolin-1 from one ORAS patient with a panel of recombinant deubiquitinases. Consistent with the respective specificities of the various hydrolases, the K63-linked polyubiquitination of high-MW caveolin-1 was reduced by treatment with recombinant CYLD but not OTULIN (Figure 5B, S5E). Similarly, the overexpression of *CYLD* but not *OTULIN* in PDFs from a patient with ORAS rescued the K63-linked polyubiquitination of high-MW caveolin-1 (Figure 5C, S5F). Unexpectedly, a stronger rescue was observed when both *CYLD* and *OTULIN* were overexpressed (Figure 5C, S5F). Caveolin-1 colocalized with K63-Ub and, to some extent, with M1-Ub aggregates in PDFs (Figure S5G). We used a combination of TUBE and high-input AQUA-MS/MS in immortalized fibroblasts to identify proteins bound to M1-Ub. We detected LUBAC components (Figure S5H), which are known to be decorated with M1-Ub (*29*). We also identified caveolin-1 and CYLD as possibly binding to M1-Ub (Figure S5H), and used cells from a HOIL1-deficient patient to validate specificity (*46*). The detection of caveolin-1 was not specific (Figure S5I), consistent with the absence of M1-Ub in the caveolin-1 IP (Figure 5A, S5C, D). We confirmed the specific binding of CYLD to M1-Ub in an *OTULIN* gene-dosage dependent manner (Figure 5D, S5I). The M1-Ub-bound CYLD-species had a higher MW than

379 that for the total CYLD-pool (Figure S5I), suggesting posttranslational modification. We identified no
380 Gly-Gly ubiquitination signature sites on CYLD by proteomic approaches, suggesting that the
381 posttranslational modification is not ubiquitination itself and that the binding of CYLD to M1-Ub is
382 non-covalent. Unlike an *OTULIN* gene-dosage effect, M1-Ub-bound HOIP was detected in cells from
383 ORAS patients only (Figure 5D, S5I, J). These data reveal a direct, LUBAC-independent but
384 OTULIN-dependent binding of M1-Ub to CYLD.
385
386 ***Colocalization of caveolin-1 with* S. aureus *α-toxin***
387 Caveolin-1 clusters in membrane microdomains (*52*) and has been reported to colocalize with
388 a disintegrin and metalloprotease domain-containing protein 10 (ADAM10) (*54*). ADAM10 is a cell
389 surface receptor used by the staphylococcal virulence factor α-toxin (*54, 55*). α-toxin is a pore-forming
390 cytotoxin triggering ADAM10-mediated cell death in a process facilitated by caveolin-1 (*56*). We
391 hypothesized that the OTULIN-dependent caveolin-1 accumulation in the PDFs from the patients
392 would contribute to the adverse outcomes of their disease. We thus investigated the cellular kinetics
393 of α-toxin binding. Following its addition to PDFs, α-toxin colocalized with both ADAM10 and
394 caveolin-1 (Figure 6A, S6A, B). ADAM10 and caveolin-1 were colocalized to some extent in the
395 presence or absence of toxin binding (Figure 6A, S6A, B). The patients' PDFs displayed moderately
396 higher levels of α-toxin binding than cells from healthy controls (Figure 6B, S6C). This observation
397 could not be explained by differential ADAM10 expression at baseline (Figure S6D, E). However,
398 after α-toxin binding, the expression of ADAM10 at the cell surface was greater in PDFs from patients
399 than in those from healthy controls (Figure S6F). These data suggest a role for caveolin-1 in retaining
400 ADAM10 at the surface of the cell when OTULIN-haploinsufficient fibroblasts are exposed to α-toxin
401 (*57, 58*).
402

OTULIN haploinsufficiency impairs intrinsic immunity to α-toxin

We hypothesized that OTULIN haploinsufficiency confers a predisposition to α-toxin-induced cell death in the PDFs of the patients. Indeed, these cells displayed an enhanced susceptibility to *S. aureus* culture supernatant-elicited cytotoxicity (Figure 6C). This cytotoxicity was antagonized by prior treatment of the supernatant with α-toxin-neutralizing monoclonal antibodies (Figure S6G), indicating a major contribution of α-toxin to cytotoxicity in these cells. *OTULIN* genotype-dependent susceptibility to α-toxin was confirmed with recombinant α-toxin (Figure 6D, S6H). The absence of a particular phenotype following the treatment of cells from patients with streptolysin O (SLO) and aerolysin — microbial toxins produced by other bacteria and not requiring specific proteinaceous host-cell surface receptors (*59*) — indicates a specific susceptibility of the OTULIN-haploinsufficient PDFs from patients to α-toxin (Figure 6D, S6H). Normal susceptibility to α-toxin was observed in PDFs from a 5p- syndrome patient carrying two copies of the *OTULIN* gene, confirming the OTULIN-dependence of the phenotype (Figure 6E, S6I). α-toxin elicited higher levels of cell surface metalloprotease activation in PDFs from the patients than in those of healthy controls (Figure 6F) (*55*). Again, a 5p- syndrome patient carrying two copies of the *OTULIN* gene behaved like controls (Figure 6F). Activity levels were correlated with ADAM10 levels following α-toxin binding (Figure S6J). Prior treatment of the PDFs with an ADAM10-selective inhibitor blocked α-toxin-induced metalloprotease activation completely in controls, but activation levels in patients were decreased only slightly, to those in untreated controls (Figure 6F). Moreover, to various extents, ADAM10 inhibition protected the patients' PDFs against α-toxin cytotoxicity (Figure S6K). Prior treatment with cyclodextrin, a chemical product disrupting caveolin-1-enriched membrane microdomains (*60*), protected PDFs from the patients against α-toxin-induced cytotoxicity (Figure S6K). The susceptibility of an OTULIN-deficient PDF cell line was partially rescued by knocking out *CAV1* but not *CAV2* (Figure 6G, S6L), further supporting a facilitating role of caveolin-1 in α-toxin cytotoxicity (*54*).

Consistent with the low levels of caveolin-1 in hematopoietic cells from the patients, these cells displayed no OTULIN-dependent susceptibility to α-toxin (Figure S6M). Murine PDFs, unlike their human counterparts, were resistant to α-toxin-elicited cell death regardless of *Otulin* genotype (Figure S6N). Thus, OTULIN haploinsufficiency results in a human-specific cell-intrinsic susceptibility of non-hematopoietic cells to the major *S. aureus* virulence factor, α-toxin.

α-toxin-neutralizing antibodies rescue OTULIN haploinsufficiency

Colonization and infection with *S. aureus* elicit α-toxin-neutralizing antibodies in an age-dependent manner (*61*). We hypothesized that α-toxin-neutralizing antibodies in the plasma of adult symptomatic and asymptomatic heterozygotes might contribute to the incomplete clinical penetrance of OTULIN haploinsufficiency (Figure 1B-D, F) (*12*). Routine measurements of immunoglobulin levels and vaccine responses revealed no defects in the patients (SM). Plasma α-toxin-neutralizing capacity in asymptomatic carriers was similar to that of healthy controls, whereas this capacity was significantly lower in patients (~one fifth that in healthy controls; Figure 7A, S7A). The lower neutralizing capacity in the patients was specific for α-toxin, because the plasma of the patients neutralized SLO and pneumolysin normally (Figure 7A, S7A). In healthy controls, plasma α-toxin-neutralizing capacity was largely driven by IgG (Figure S7B). In patients, anti-α-toxin IgG levels were significantly lower than those in healthy controls, whereas IgA and IgM levels were unaffected (Figure 7B, S7C, D). The anti-α-toxin IgG levels in asymptomatic carriers were like those of healthy controls (Figure 7B, S7C, D) (*61*). Similar observations were made following correction for sample-specific total IgG levels (Figure S7E). Thus, naturally elicited α-toxin-neutralizing antibodies can rescue OTULIN haploinsufficiency in vivo, thereby contributing to incomplete penetrance.

Discussion

We tested the hypothesis that some patients from our cohort with severe staphylococcal disease suffered from IEIs. Using an unbiased approach, we detected a genome-wide enrichment in very rare, deleterious heterozygous *OTULIN* variants in the cohort. We identified haploinsufficiency for OTULIN as a genetic etiology of severe staphylococcal disease. AR OTULIN deficiency results in life-threatening autoinflammation, manifesting early in life as ORAS (*29-32*). By contrast, patients with AD OTULIN deficiency typically presented with severe disease triggered by *S. aureus* infections. Most of the patients with OTULIN haploinsufficiency experienced their first episode of disease during adolescence. Necrosis was a clinical hallmark of disease in the probands. Some patients were not diagnosed with *S. aureus* infections, suggesting that low-grade infectious or, perhaps, non-infectious triggers might be at work. AD OTULIN deficiency is clinically expressed in a tissue-specific manner because the skin and/or lungs are the affected organs in all patients. The pedigrees reported in our study displayed variable degrees of penetrance and expressivity. Such observations are common in situations of haploinsufficiency (*62, 63*). We show that naturally elicited α-toxin-neutralizing antibodies can rescue OTULIN haploinsufficiency and we suspect that declining levels of such antibodies may contribute to recurrent episodes of severe staphylococcal disease in some patients. We estimate the clinical penetrance of AD OTULIN deficiency at about 30%. This estimate of clinical penetrance mirrors our findings for individuals with 5p- syndrome. It is difficult to establish causal relationships between individual genes and specific phenotypes in patients with chromosomal deletion syndromes. Clinical manifestations of a monogenic disorder in a chromosomal deletion syndrome have also been reported for GATA3 haploinsufficiency (*64*). Our observations suggest that the study of rare IEIs can help to clarify phenotypes seen in individuals with more common chromosomal abnormalities.

In ORAS patients, autoinflammation results from the defective downregulation of NF-κB-dependent inflammatory signaling in hematopoietic cells, particularly those of the myeloid lineage

475 (*29-32*). OTULIN deficiency causes a gene dosage-dependent accumulation of M1-Ub, but OTULIN
476 haploinsufficiency is both clinically and biochemically silent for TNF-induced signaling events,
477 instead causing a predisposition to infection. The apparent paradox of autoinflammation and
478 immunodeficiency within the spectrum of clinical phenotypes of OTULIN deficiency is also observed
479 in patients with HOIL1 and HOIP deficiencies, which greatly decrease the levels of M1-Ub (*46, 65*).
480 The combination of autoinflammation and immunodeficiency in HOIL1 and HOIP deficiencies
481 highlights the complex role of LUBAC in maintaining the cell type-specific balance between
482 inflammation and immunity. Inflammation is regulated by two other deubiquitinases in addition to
483 OTULIN: A20 and CYLD. Phosphorylated A20 preferentially cleaves K63-Ub in cells (*66, 67*).
484 CYLD hydrolyzes K63-Ub and M1-Ub (*68*). AD A20 deficiency causes an autoinflammatory
485 condition resembling Behçet's disease (*69*), whereas AD CYLD deficiency results in cylindromatosis
486 of the skin (*70*). AR HOIL1, HOIP, and OTULIN deficiencies and AD A20 deficiency are systemic
487 disorders. Conversely, AD OTULIN and CYLD deficiencies result in tissue-specific disease. OTULIN
488 and CYLD bind HOIP in a mutually exclusive manner (*71*). The detection of CYLD bound to M1-Ub
489 reveals another, LUBAC-independent, layer of crosstalk between the two deubiquitinases. CYLD
490 activity and specificity were recently shown to be regulated by phosphorylation and ubiquitin-binding
491 CAP-Gly domains (*72*). We speculate that, with insufficient amounts of OTULIN, phosphorylated
492 CYLD primed for activity towards K63-Ub is quenched by M1-Ub. The accumulation of caveolin-1
493 in dermal fibroblasts observed in patients with OTULIN deficiency probably results from disruption
494 of the polyubiquitination of this molecule.

495 Human OTULIN haploinsufficiency is an inborn error of cell-intrinsic immunity to *S. aureus*
496 infection. Staphylococcal disease displays a remarkable organ tropism, affecting the skin and lungs in
497 particular (*1*). Tissue barrier disruption is a hallmark of severe staphylococcal disease (*73*). α-toxin is
498 a key staphylococcal virulence factor that contributes to severe disease (*73-76*) and can injure non-

hematopoietic cells (*54, 73, 77, 78*). The mechanism underlying the impairment of staphylococcal immunity in OTULIN haploinsufficiency is reminiscent of that involved in cell-intrinsic immunodeficiencies conferring susceptibility to viral infections (*79-81*). In the absence of sufficient levels of α-toxin-neutralizing antibodies, susceptibility to staphylococcal disease in patients with OTULIN haploinsufficiency is driven by a defect of cell-intrinsic immunity to the α-toxin of the pathogen. In patients with OTULIN haploinsufficiency, caveolin-1 accumulates specifically in non-hematopoietic cells. Caveolin-1 clusters with α-toxin and the retention of ADAM10 at the surface of the patients' cells predisposes these cells to α-toxin-induced cell death (*82, 83*). Caveolin-1 accumulation is observed in the cells of patients with either bi- or monoallelic OTULIN deficiencies. The late-onset infectious phenotype in patients with AD OTULIN deficiency may be overshadowed by the early-onset severe autoinflammatory manifestations in ORAS or compensated for by the presence of α-toxin-neutralizing antibodies. Consistent with this view, we also identified a pediatric homozygous carrier of a moderately hypomorphic OTULIN variant with an infectious phenotype indistinguishable from that of our haploinsufficient probands, with no autoinflammatory features. This work provides a direct demonstration of a defined host characteristic predisposing humans to adverse events elicited by a specific bacterial virulence factor.

S. aureus is a pathogen of paramount significance in human health (*1*). In the face of a globally emerging epidemic of community-acquired methicillin-resistant *S. aureus* (MRSA) strains (*18*), innovative strategies for treating and preventing infection are needed (*84*). In the presence or absence of documented *S. aureus* infections, OTULIN-haploinsufficient patients with severe necrosis may benefit from combined antibiotic and steroid therapy, together with α-toxin-neutralizing monoclonal antibodies (*85*). Despite clear public health needs, no effective *S. aureus* vaccine has yet been approved (*86*). Humans are the main reservoir of *S. aureus*, and the pathogen is highly adapted to its human host (*77, 78*). Mice are naturally resistant to *S. aureus* infection (*87*). The principal mechanistic differences

523 in hematopoietic immunity to staphylococcal infections between humans and mice have been
524 characterized (*77, 78*). By contrast, the mechanisms of cell-intrinsic immunity in non-hematopoietic
525 cells have been little studied in either humans or mice (*80, 88-90*). Staphylococcal virulence factors,
526 such as α-toxin, are considered potential targets for strategies aiming to treat and prevent infection
527 (*77, 78*). For many of these virulence factors, and cytotoxins in particular, one or more aspects of the
528 interaction with the host are human-specific (*78, 91*). Murine ADAM10 can interact with α-toxin (*55*).
529 However, OTULIN haploinsufficiency reveals a layer of human specificity at the interface between
530 α-toxin and its human non-hematopoietic target cells. OTULIN haploinsufficiency demonstrates the
531 contribution of *S. aureus* toxins to the pathophysiology of severe disease in humans. The experiment
532 of Nature described here identifies a mechanism of human cell-intrinsic immunity to *S. aureus*
533 infections and highlights the potential for interfering with the staphylococcal α-toxin for treating and
534 preventing disease (*85, 92*).
535

Materials and methods

Human subjects

Informed consent was obtained from each patient, in accordance with local regulations, and a protocol for research on human subjects was approved by the institutional review boards (IRB) of *Institut National de la Santé et de la Recherche Médicale* (INSERM, protocol C10-16) and The Rockefeller University (protocols JCA-0698 and JCA-0695).

Whole-exome sequencing, breakpoint determination, and variant enrichment analyses

Genomic DNA was extracted from whole blood. Whole-exome sequencing and breakpoint determinations are detailed in the SM. A gene-based enrichment analysis was performed on the cohort of 105 patients with severe staphylococcal disease, together with 1,274 individuals with Mendelian susceptibility to mycobacterial disease (MSMD) or suffering from tuberculosis (TB) as controls. Rare variants (MAF < $1x10^{-5}$ in the gnomAD database (*20*)) predicted to be damaging (combined annotation-dependent depletion score (CADD) > mutation significance cutoff (MSC) (*21*)) were retained (Table S1) (*23*). The proportions of individuals with rare damaging variants in the cohort and the controls were compared by logistic regression with likelihood ratio tests (Table S2). The first five principal components of the PCA were systematically included in the logistic regression model to account for the ethnic heterogeneity of the cohorts, as previously described (*93*). Genes were then tested under a dominant genetic model. Four carriers, three of whom carried heterozygous variants, were identified amongst the cases. No carriers were identified amongst the controls. We then performed the same analysis again, but with the addition of 2,504 individuals from 1,000 Genomes Project phase 3 (*25*) to our control dataset (*26*).

Cell culture

560 Primary dermal fibroblasts (PDFs) were obtained from skin biopsy specimens and cultured in
561 Dulbecco's modified Eagle's medium (DMEM) (Gibco) supplemented with 10% heat-inactivated
562 fetal bovine serum (HI-FBS) (Gibco) unless otherwise specified. PBMCs were isolated from whole
563 blood by density gradient centrifugation on Ficoll-Paque PLUS (GE Healthcare Life Sciences) and
564 maintained in Roswell Park Memorial Institute (RPMI) 1640 (Gibco) medium supplemented with 10%
565 HI-FBS unless otherwise specified. Immortalized fibroblasts were generated by transformation with
566 SV40 as previously described (*94*) and maintained in DMEM supplemented with 10% HI-FBS.
567 HEK293T cells (American Type Culture Collection) were cultured in DMEM supplemented with 10%
568 HI-FBS.
569
570 ***Generation of OTULIN constructs, transfection, transduction, and nucleofection***
571 The human canonical *OTULIN* cDNA open reading frame clone was amplified from pCMV6-
572 Entry FAM105B (OriGene) and inserted into the pCMV6-AN-Myc-DDK-tagged vector (OriGene) or
573 pLentiIII-UBC (Abmgood). Site-directed mutagenesis to generate the *OTULIN* variants present in the
574 patients was performed by a modified overlap-extension PCR-based method (*95*). All constructs were
575 validated by Sanger sequencing. HEK293T cells were transiently transfected in the presence of
576 Lipofectamine LTX (Thermo Fisher Scientific). For lentiviral transductions, semi-confluent
577 HEK293T cells were cotransfected with *OTULIN*, *GAG*, *POL*, and *ENV* plasmids. The supernatant
578 was collected at 48 hours and 72 hours and concentrated with a Lenti-X concentrator (Clontech). A
579 ten-fold dilution (by volume) of the lentivirus preparation was added to semi-confluent immortalized
580 fibroblasts plated on six-well plates. Transduced cells were selected with puromycin (Invitrogen).
581 PDFs were mixed with gene knockout kit V2 single guide RNA pools (Synthego) in the presence of
582 TrueCut Cas9 protein V2 (Thermo Fisher Scientific), or with pCMV6 expression vectors, and

583 nucleofected with the basic nucleofector kit for primary mammalian fibroblasts (Lonza) on a
584 Nucleofector 2b device (Lonza).
585
586 ***NF-κB inhibition assay and linear deubiquitinase assay***
587 HEK293T cells in 96-well plates were transiently cotransfected with pCMV6 vectors
588 containing the *OTULIN* cDNA variants, the NF-κB firefly luciferase plasmid pGL4.32, and the *Renilla*
589 luciferase plasmid (pRLTK) as an internal control. The cells were stimulated, 24 hours after
590 transfection, by incubation with 20 ng/mL TNF in minimal medium (1% FBS) for an additional 24
591 hours. The ratio of firefly-to-*Renilla* luciferase expression was assessed with the Dual-Glo Luciferase
592 assay (Promega) on a bioluminescence plate reader. Data were normalized against the inhibitory
593 activity of cells transfected with a vector encoding the *OTULIN* reference cDNA. For linear
594 deubiquitination assays, HEK293T cells were cotransfected with pCMV6 vectors containing the
595 *OTULIN* cDNA variants, HOIL-1, HOIP, SHARPIN and linear ubiquitin (UbK0) and harvested after
596 48 hours. Whole-cell lysates (WCLs) were prepared with WCL buffer A (Table S4). For
597 immunoprecipitation, anti-M1-Ub antibody was added and the lysates were incubated overnight at
598 room temperature. Dynabeads™ Protein G (Thermo Fisher Scientific) beads were added to the
599 samples, which were then incubated for one hour at room temperature. The beads were then washed
600 with WCL buffer A (Table S4) and resuspended in 2 x NuPAGE LDS sample buffer (Thermo Fisher
601 Scientific) supplemented with DTT. The antibodies used are described in Table S3.
602
603 ***Reverse transcription and PCR***
604 Total RNA was extracted from transiently transfected HEK293T cells or from PDFs with the
605 RNeasy Mini Kit (QIAGEN). Reverse transcription was performed with the SuperScript III First-
606 Strand Synthesis System (Invitrogen) and random hexamers. Quantitative PCR was performed with

607 the TaqMan Universal PCR Master Mix (Applied Biosystems) in the 7500 Fast Real-Time PCR
608 System (Applied Biosystems). The following TaqMan Gene Expression assays (Thermo Fisher
609 Scientific) were used: *OTULIN* (Hs01113237_m1); *GUSB* (Hs00939627_m1); *GAPDH*
610 (Hs99999905_m1).
611
612 ***Whole-cell lysates, SDS-PAGE, and western blotting***
613 Transiently transfected HEK293T cells were harvested and lysed in whole cell lysate (WCL)
614 buffer B (Table S4). PDFs were synchronized by incubation in DMEM containing 1% FBS for 24 h
615 before trypsin treatment and were then lysed in WCL buffer C (Table S4) with sonication to clear the
616 supernatants. Immortalized fibroblasts were stimulated with 10 ng/mL TNF and lysed in WCL buffer
617 D (Table S4). Monocytes were obtained from freshly thawed PBMCs with the Pan Monocyte Isolation
618 Kit (Miltenyi Biotec) and lysed in WCL buffer C (Table S4) with sonication to clear the supernatants.
619 Laemmli buffer (BioRad) supplemented with DTT was added to the clarified lysates. Proteins were
620 separated by SDS–PAGE transferred onto an Immobilon-P PVDF membrane (Millipore). The
621 membrane was blocked by incubation in PBS supplemented with 0.1% Tween 20 and 5% BSA and
622 incubated overnight with the primary antibody, followed by the appropriate horseradish peroxidase-
623 conjugated secondary antibody. Immunoreactive proteins were visualized by enhanced
624 chemiluminescence. Intensity analyses were performed with ImageStudioLite (LI-COR). The
625 antibodies used are described in Table S3.
626
627 ***Cytometry by time-of-flight***
628 Freshly thawed PBMCs were incubated with Fc block and then with a panel of metal-
629 conjugated antibodies, as described elsewhere (*96*). The antibodies used are described in Table S3.
630 Batch-integrated unsupervised clustering analysis was conducted with the iMUBAC pipeline (*45*).

631 The analysis included 29 adult controls (nine studied in replicate) and nine pediatric controls (all under
632 the age of 18 years) studied across seven batches of experiments, four patients with heterozygous
633 mutations of *OTULIN* and two 5p- patients studied in two batches of experiments. Clusters were
634 identified manually and renamed based on their marker expression patterns.
635
636 ***Flow cytometry***
637 Freshly thawed PBMCs were rested for 3 hours and were then stimulated for 90 minutes with
638 20 ng/mL TNF (R&D Systems) or 1 ng/mL LPS (InvivoGen). The reaction was stopped by washing
639 the cells with PBS, and the cells were then subjected to live/dead staining. Cells were subsequently
640 stained with surface markers and washed. They were then permeabilized and stained with Phosflow
641 Perm Buffer (BD) or Intracellular Staining Perm Wash Buffer (BioLegend). PDFs were synchronized
642 by incubation in DMEM supplemented with 1% HI-FBS for 24 hours and were then harvested by
643 trypsin treatment. The fibroblasts were stained, fixed and acquired on a LSR-Fortessa cytometer (BD).
644 All flow cytometry results were analyzed with FlowJo (version 10). The antibodies used are described
645 in Table S3.
646
647 ***Cytokine detection***
648 PDFs were synchronized by incubation in DMEM supplemented with 1% HI-FBS for 24 hours
649 before stimulation. At steady state and after 6 hours of stimulation with 20 ng/mL TNF (R&D
650 Systems), supernatants were harvested, and the levels of IL-6 and IL-8 were assessed with the IL-6
651 and IL-8 Human ELISA kits (Thermo Fisher Scientific). Freshly thawed PBMCs were left
652 unstimulated or stimulated with 20 ng/mL TNF (R&D Systems), 10 ng/mL IL-1β (R&D Systems),
653 HKSA (heat-killed *S. aureus*; MOI: 10; InvivoGen), or 1 ng/mL LPS (InvivoGen) for 6 hours.

Supernatants were harvested, and chemokines and cytokines were detected with LEGENDPlex Human Inflammation Panel 1 (BioLegend).

Induced pluripotent stem cells

The generation and culture of iPSCs, their differentiation into macrophages, and the phagocytosis and H_2O_2 production assays are described in the SM.

Transcriptional and proteomic analyses

Transcriptional analyses in PDFs and PBMCs, single-cell RNA-sequencing on PBMCs, and global proteomics analyses of PDFs are described in the SM.

Caveolin-1 immune purification from whole-cell lysates

PDFs were synchronized by incubation in DMEM containing 1% HI-FBS for 24 hours and were then harvested by trypsin treatment. Cell pellets were lysed in WCL buffer C (Table S4) with sonication to clear the supernatants. Cleared WCLs were incubated overnight at 4°C with Protein A Dynabeads (Thermo Fisher Scientific) conjugated to the monoclonal anti-caveolin-1 antibody or an isotype control. The samples were then eluted from the beads with 50 mM glycine, pH 2. The antibodies used are described in Table S3. The immunopurification products (IPs) were then split into portions for loading onto a gel or direct in-solution proteomic analyses, as described in the SM.

Deubiquitination of purified caveolin-1

Caveolin-1 IPs were treated with recombinant deubiquitinases as described elsewhere (*97*). Briefly, immunopurified caveolin-1 was incubated with deubiquitinases at 37°C for 30 minutes. Recombinant USP2, AMSH, and OTULIN (UbiCREST Deubiquitinase Enzyme Set, R&D Systems)

678 were used at a final concentration of 1x. Recombinant His-CYLD (R&D Systems) was used at a final
679 concentration of 1 μM. Purified polyubiquitin chains were deubiquitinated by incubating tetra-M1-,
680 K48- and K63-Ub chains (R&D Systems) at a concentration of 3 μM with deubiquitinases. Following
681 the enzymatic reactions, sample buffer containing DTT was added, and the proteins were separated by
682 SDS-PAGE, as described above.
683
684 ***Linear ubiquitin-selective tandem Ub-binding entity assay***
685 For M1-Ub pulldown, immortalized fibroblasts were lysed in WCL buffer E (Table S4)
686 containing FLAG-tagged M1-Ub-selective tandem Ub-binding entity (TUBE) (LifeSensors).
687 Supernatants were cleared by centrifugation and incubated with Anti-FLAG M2 agarose beads (Sigma
688 Aldrich) for 2 hours at 4°C. The beads were washed with WCL buffer E (Table S4), and resuspended
689 in 1 x Laemmli buffer without reducing agent. For M1-Ub quantification, we used an input of ~0.5
690 mg per sample. For the identification of peptides bound to M1-Ub, we used an input of ~2 mg per
691 sample. M1-Ub quantification and the identification of peptides bound to M1-Ub by means of absolute
692 quantification (AQUA) tandem mass spectrometry (MS/MS) are described in the SM. For western-
693 blot analyses, beads were resuspended in sample buffer containing DTT and samples were separated
694 by SDS-PAGE, as described above.
695
696 ***Immunofluorescence assays***
697 Immortalized fibroblasts were cultured on glass coverslips for the staining of M1-Ub, K63-
698 Ub, and caveolin-1. The cells were fixed in methanol, blocked by incubation with 1% BSA and
699 incubated overnight with primary antibodies and CellMask™ deep red plasma membrane stain
700 (Thermo Fisher Scientific), followed by secondary antibodies and DAPI. Specimens were examined
701 either with an Imager Z1 microscope (Carl Zeiss, for M1-Ub aggregate number quantifications) or a

LSM800 laser scanning microscope (Carl Zeiss, for caveolin-1 and M1-Ub or K63-Ub colocalization experiments). The numbers of ubiquitin aggregates per cell were quantified using CellProfiler (http://www.cellprofiler.org/). Nuclei and cell boundaries were segmented to identify OTULIN-positive cells and to attribute M1-Ub-positive aggregates to parental cells. Immunofluorescence deubiquitination and competition assays are described in the SM. For α-toxin colocalization and binding experiments, PDFs were synchronized by incubation in DMEM containing 1% HI-FBS for 24 hours before trypsin treatment. PDFs were incubated with 10 μg/mL α-toxin-Cys-AF647, washed, and then fixed with methanol. After incubation with antibodies and DAPI, cells were seeded in a slide chamber. Images were acquired on a Leica SP5 confocal microscope (Leica Microsystems) and NanoImager (ONI). In parallel, the cells were recorded on a FACS Verse flow cytometer (BD). Confocal images were analyzed with Image J Fiji software and the JACoP colocalization analysis plugin (*98*). The antibodies used are described in Table S3.

Cell viability assays

PDFs were plated in a microtiter plate and synchronized in DMEM containing 1% HI-FBS and 25 mM DMEM for 24 hours and were then incubated for 2.5 hours with 5-10% crude bacterial culture supernatant or for 24 hours with recombinant toxins, or with 100 ng/mL TNF (R&D Systems) plus 1 μM BV6 (ApexBio) at 37°C, under an atmosphere containing 5% CO_2. Bacterial supernatants were neutralized by incubation for 15 minutes in DMEM supplemented with 10% HI-FBS plus 100 μg/mL monoclonal antibodies (*92, 99*). PBMCs and iPSC-derived macrophages were incubated with α-toxin for 2 hours and 24 hours, respectively, at 37°C, under an atmosphere containing 5% CO_2. For the inhibition of α-toxin cytotoxicity, PDFs were treated for 1 hour with 20 μM GI-254023X (R&D Systems) or DMSO before adding 1.1 μg/mL α-toxin, or for 2 hours with 1 mM methyl-β-cyclodextrin (Sigma) followed by washing and the addition of 1.1 μg/mL α-toxin. Viability was assessed with the

726 CellTiterGlo Luminescent Cell Viability Assay (Promega) and expressed relative to cells not
727 incubated with the toxin or supernatant. Four-parameter non-linear regression analyses were
728 performed to obtain half-maximum effective concentrations (EC_{50}). The expression of recombinant
729 toxins and the generation of bacterial culture supernatant are described in the SM.
730
731 ***Metalloprotease activity assays***
732 PDFs were plated in a microtiter plate and synchronized by incubation in DMEM containing
733 1% HI-FBS and 25 mM DMEM for 24 hours. They were then treated for 1 hour with 20 μM GI-
734 254023X (R&D Systems) or DMSO before the addition of 3.3 μg/mL wild-type or H35L-toxoid α-
735 toxin. After 2 hours of incubation at 37°C, under an atmosphere containing 5% CO_2, cells were washed
736 with 25 mM Tris (pH 8), and 10 μM Mca-PLAQAV-Dpa-RSSSR-NH2 Fluorogenic Peptide
737 Substrate (R&D Systems) was added. After incubation for 30 minutes, fluorescence intensity was
738 measured on a monochromator-based microplate reader and expressed relative to cells not incubated
739 with the toxin.
740
741 ***Mice***
742 The generation and use of *Otulin*-haploinsufficient mice is described in the SM.
743
744 ***Anti-α-toxin immunoglobulins***
745 The capacity of the plasma to neutralize microbial toxins was assessed with rabbit erythrocytes,
746 as described in the SM. Pooled plasma was depleted of IgG with HiTrap Protein G HRP columns (GE
747 Healthcare). Anti-α-toxin immunoglobulin levels were measured by ELISA, as described in the SM.
748

749 **References and notes**

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Acknowledgments

We thank the patients, their families, and the US 5p- Syndrome Society for their trust and collaboration. We thank Martijn van Aartrijk, Selket Delafontaine, Mikko Muona, Emmanuelle Jouanguy, Yelena Nemirovskaya, Mark Woollett, Marjan Wassenberg, Marc Bonten, Suzan Rooijakkers, Kok van Kessel, and Jos van Strijp for their assistance and support. We thank the Flow Cytometry and Genomics Resource Centers at The Rockefeller University. **Funding:** This work was supported by the National Center for Advancing Translational Sciences of the National Institutes of Health (NIH) (UL1TR001866 to The Rockefeller University), the Sackler Center for Biomedicine and Nutrition at the Center for Clinical and Translational Science at The Rockefeller University and the Shapiro-Silverberg Fund for the Advancement of Translational Research (to A.N.S.), NIH P01AI061093 (to J.-L.C.), the Square Foundation, the French National Research Agency (ANR-10-IAHU-01), the Integrative Biology of Emerging Infectious Diseases Laboratory of Excellence (ANR-10-LABX-62-IBEID), the French Foundation for Medical Research (EQU201903007798), the Howard Hughes Medical Institute, the St. Giles Foundation, The Rockefeller University, Institut National de la Santé et de la Recherche Médicale (INSERM), the Paris Cité University, the Laura and Isaac Perlmutter Cancer Center and the National Institutes of Health/National Cancer Institute (P30CA016087 to the NYU Langone's Rodent Genetic Engineering Laboratory), the Bettencourt Schueller Foundation and the International PhD program of the Imagine Institute (to A-L.N.), the David Rockefeller Graduate Program (to M.O.), the New York Hideyo Noguchi Memorial Society (to M.O.), the Funai Foundation for Information Technology (to M.O.), the Honjo International Scholarship Foundation (to M.O.), the Cystic Fibrosis Foundation Postdoctoral Research Fellowship award (LACEY19FO, to K.A.L.), the William C. and Joyce C. O'Neil Charitable Trust (to T.B.), the Memorial Sloan Kettering Single Cell Sequencing Initiative (to T.B.), the Hospital Research Funds at the Pediatric Research Center at the Helsinki University Hospital (to M.R.J.S.), the Foundation for

Pediatric Research of Finland (to M.R.J.S.). C.W. serves as a member of the European Reference Network for Rare Immunodeficiency, Autoinflammatory and Autoimmune Diseases (739543). The work was supported in part by the ERC Start grant IMMUNO (ERC-2010-StG_20091118, to A.L.), the VIB Grand Challenges (to A.L., S.H-B., R.S.), the KU Leuven BOFZAP start-up grant (to S.H-B.), National Fund for Scientific Research senior clinical investigator fellowships (1805518N, to R.S.; and G0B5120N, to I.M.), National Fund for Scientific Research grants (G0E8420N and G0C8517N, to I.M.), a KU Leuven C1 grant (to I.M.), and the ERC Start grant MORE2ADA2 (ERC-2020-StG_948959, to I.M.). I.M. is a member of ERN-RITA. D.B. is supported by the NIH (R01 AI148963) and a founder of Lab11 Therapeutics, Inc. The *S. aureus* work in the Torres laboratory is funded by the NIH (R01 AI099394, R01 AI105129, R01 AI121244, R01 AI137336 and R01 AI140754, to V.J.T). V.J.T. is a Burroughs Wellcome Fund Investigator in the pathogenesis of infectious diseases. A.N.S. was supported in part by the European Union's Horizon 2020 Research and Innovation Program (Marie Skłodowska-Curie grant No. 789645), the Dutch Research Council Talent Program (NWO Rubicon grant No. 019.171LW.015, partially non-stipendiary), and the European Molecular Biology Organization (EMBO Long-Term Fellowship grant No. ALTF 84-2017, non-stipendiary). **Author contributions:** A.N.S., L.A., B.B., and J-L.C. conceptualized the project. A.N.S., D.B., H.M., S.C, L.A., B.B. and J-L.C designed the methods. A.N.S., A.L.N., E.L., F.R., M.O., Y.S., S.C. and B.B performed formal analyses. A.N.S., A-L.N., E.L., F.S., K.A.L., E.N., M.C., D.H., M.M., A.I., L.L., T.K., M.R.J.S., D.A.C.H., S.H., T.B., and R.Y. performed investigations. A.L.D., K.D., H.F.W., G.V.B., R.W., G.S., H.G-T., H.L.L., B.W.B., S.L., L.D.N., M.M., M.S., X.B., E.S., R.T., S.O., M.J.M.E., L.B., L.B.G., A.L., A.N., B.B-M., B.N., I.M., C.W., M.R.J.S., R.S., E.J., A.P., J.B., I.A., and D.K. provided resources. A.N.S., B.B., and J-L.C. wrote the manuscript. A.N.S., V.J.T., A.L., S.H-B., L.A., B.B., and J-L.C. supervised the project. A.N.S., V.J.T., A.L., S.H-B., L.A., B.B., and J-L.C. acquired funding for the project. **Competing interests:** V.J.T. is an inventor on patents and patent

applications filed by New York University, which are currently under commercial license to Janssen Biotech Inc. Janssen Biotech Inc. provides research funding and other payments associated with the licensing agreement. D.B. is a founder of Lab11 Therapeutics Inc. None of the other authors have any conflict of interest to declare. **Data and material availability:** Plasma, cells, and genomic DNA are available from J-L.C. under a material transfer agreement with The Rockefeller University. The materials and reagents used are almost exclusively commercially available and nonproprietary. Raw RNA sequencing data have been deposited to the NCBI BioProject database and are available under project number PRJNA818002. Proteomic data have been deposited to the ProteomeXchange Consortium via the PRIDE partner repository and are available with dataset identifier PXD032727. All other data are available in the main text or in the SM.

Supplementary Materials

Case reports for the patients studied

Supplementary materials and methods

Figures S1 to S7

Tables S1 to S4

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MDAR Reproducibility Checklist

Figure legends

Figure 1. OTULIN haploinsufficiency and its molecular characterization. (A) Genome-wide enrichment in rare, predicted deleterious variants in the cohort of *N*=105 patients with severe staphylococcal disease, relative to *N*=1,274 patients with mycobacterial disease. **(B)** Pedigrees of the kindreds presenting severe necrotizing staphylococcal disease and carrying heterozygous mutations of *OTULIN*. **(C)** Pedigrees of the kindreds carrying heterozygous mutations of *OTULIN* and presenting necrosis triggered by other etiologies. **(D)** Pedigrees of the kindreds of ORAS probands carrying biallelic mutations of *OTULIN*. **(E)** Functional population genetics based on minor allele frequencies (MAFs) reported in the gnomAD database and the NF-κB inhibitory capacity of the OTULIN variants, as assessed with a luciferase reporter system in transiently transfected HEK293T cells stimulated with TNF (datapoints represent the mean of *N*=4-5 per variant). **(F)** Pedigrees of the kindreds of the 5p- syndrome probands carrying deletions with a breakpoint centromeric to *OTULIN*. The patients are shown in ascending age order (left to right, top to bottom). **(G)** Pedigree of the 5p- syndrome kindred with probands carrying a deletion with a breakpoint telomeric to *OTULIN*. WT: wild-type allele; MT: mutant allele; LOF: loss of function. See also Figure S1 and Table S1, S2.

Figure 2. OTULIN haploinsufficiency does not impair the hematopoietic immune system. (A) Aggregate uniform manifold approximation and projection (UMAP) plots of peripheral blood mononuclear cells (PBMCs) from patients with autosomal dominant OTULIN deficiency and healthy controls, as assessed by cytometry by time-of-flight (CyTOF). **(B)** Principal component (PC) analysis plot of the transcriptional profile of PBMCs at baseline and after incubation with various stimuli, in comparison with healthy controls. Arrows have been added for visual support of the direction of variance after stimulation. NS: not stimulated; HKSA: heat-killed *S. aureus*. See also Figure S2.

Figure 3. *OTULIN* gene dosage-dependent accumulation of M1-Ub in fibroblasts. (A) Expression of OTULIN, HOIP, HOIL-1, and SHARPIN in primary dermal fibroblasts (PDFs). **(B)** Relative abundance of OTULIN peptides in PDFs, as determined by mass spectrometry analysis (median). **(C)** Accumulation of aggregates containing M1-Ub in immortalized fibroblasts, as assessed by immunohistochemistry. Representative images. **(D)** Quantification of the aggregate accumulations seen in (D) (median). **(E)** Quantification of aggregates containing M1-Ub in immortalized fibroblasts after rescue with wild-type OTULIN, as compared with cells rescued with an empty virus (mean ±SD). **(F)** Abundance of M1-Ub, as determined by AQUA-MS/MS analysis of immortalized fibroblasts (median). Statistical significance was calculated by ANOVA with Dunnett post hoc correction for multiple comparisons. See also Figure S3.

Figure 4. *OTULIN*-dependent accumulation of caveolin-1 in fibroblasts. (A) Transcriptional profile of unstimulated primary dermal fibroblasts (PDFs), as assessed by RNA sequencing, expressed as $\log_2$-fold changes (FC) relative to the mean value for controls. Genes satisfying the threshold for statistical significance in comparisons of ORAS patients to controls are shown. **(B)** Proteomic profiles of unstimulated PDFs, as assessed by mass spectrometry on whole-cell lysates, expressed as Z-scores. Genes satisfying the threshold for statistical significance in comparisons of ORAS patients to controls are shown. **(C)** STRING analysis of the cluster of proteins with differential abundances in various genotypes identified in (B). **(D)** Accumulation of SDS-resistant high-MW caveolin-1-containing complexes in PDF-whole cell lysates (WCLs). **(E)** High-MW caveolin-1-containing complex intensities relative to β-actin intensities in PDF-WCLs, normalized against the mean value of healthy controls (datapoints indicate the mean of N=2 replicates per patient, median per group). **(F)** High-MW caveolin-1-containing complex intensities relative to β-actin

1142 intensities in PDF-WCLs treated with an sgRNA pool targeting *OTULIN* (sgOTU), normalized against
1143 the mean value in those treated with a non-targeting control sgRNA (sgNTC) (median, *N*=4). The
1144 statistical significance of differences was assessed in Student's *t*-tests. See also Figure S4.
1145
1146 **Figure 5. Polyubiquitination of caveolin-1. (A)** Analysis of K63-Ub on caveolin-1 by LC-
1147 MS/MS on purified caveolin-1 from primary dermal fibroblast (PDF) whole cell lysates (WCLs).
1148 Caveolin-1 was analyzed in solution, in the high-molecular weight (MW) complex fraction, and in the
1149 monomeric (Mono) fraction. **(B)** High-MW K63-Ub complex intensities relative to caveolin-1
1150 intensities in recombinant deubiquitinase-treated purified caveolin-1 from PDFs. **(C)** High-MW K63-
1151 Ub complex intensities relative to caveolin-1 intensities in purified caveolin-1 from PDFs after rescue
1152 with *CYLD* and/or *OTULIN*. **(D)** Intensities of CYLD and HOIP bound to M1-Ub, as detected in
1153 TUBE pull-downs from immortalized fibroblasts, relative to intensities of total CYLD and HOIP,
1154 respectively. Statistical significance was calculated by ANOVA with Dunnett post hoc correction for
1155 multiple comparisons. See also Figure S5.
1156
1157 **Figure 6. OTULIN haploinsufficiency impairs intrinsic immunity to α-toxin in**
1158 **fibroblasts. (A)** Colocalization of α-toxin with ADAM10 and caveolin-1 in primary dermal fibroblasts
1159 (PDFs), visualized in high-resolution images acquired by stochastic optical reconstruction
1160 microscopy, after 30 minutes of incubation in the presence or absence of α-toxin. **(B)** Binding of α-
1161 toxin in PDFs, as detected by flow cytometry. **(C)** Viability of PDFs following 2.5 h of incubation
1162 with culture supernatant from *S. aureus* (datapoints indicate the mean of *N*=3 replicates per patient,
1163 median per group). **(D)** Viability of PDFs following 24 h of incubation with recombinant microbial
1164 toxins (*N*=2-4 per group, mean ±SD per group). **(E)** Viability of PDFs from a 5p- syndrome patient
1165 with a breakpoint telomeric to *OTULIN* following 24 h of incubation with recombinant α-toxin,

superimposed on that for healthy controls and 5p- patients with a breakpoint centromeric to *OTULIN* from panel (F) (*N*=3, mean ±SD). **(F)** Cell-surface metalloprotease activity in PDFs induced by wild type α-toxin (WT) or a toxoid mutant (H35L) following the treatment of cells with an ADAM10 inhibitor or carrier (datapoints indicate the mean of *N*=3 replicates per patient, median per group). **(G)** Viability of OTULIN-deficient PDFs treated with an sgRNA pool targeting *CAV1* (sgCAV1), *CAV2* (sgCAV2), or a non-targeting control sgRNA (sgNTC) following exposure to α-toxin (0.12 μg/mL; *N*=3, median). The statistical significance of differences was assessed in Student's *t*-tests (C), or by ANOVA with Bonferroni (F) or Dunnett (G) post hoc corrections for multiple comparisons. See also Figure S6.

Figure 7. α-toxin-neutralizing antibodies rescue OTULIN haploinsufficiency. (A) Capacity of plasma at a dilution of 1:300 to neutralize the hemolytic activity of α-toxin (20 ng/mL), pneumolysin (PLY, 0.67 ng/mL), and streptolysin O (SLO, 42 ng/mL) in rabbit erythrocytes. **(B)** Anti-α-toxin immunoglobulin levels in plasma at a dilution of 1:750. We analyzed plasma from adult patients, relatives, and controls. The statistical significance of differences was determined by ANOVA with Dunnett post hoc correction for multiple comparisons. See also Figure S7.

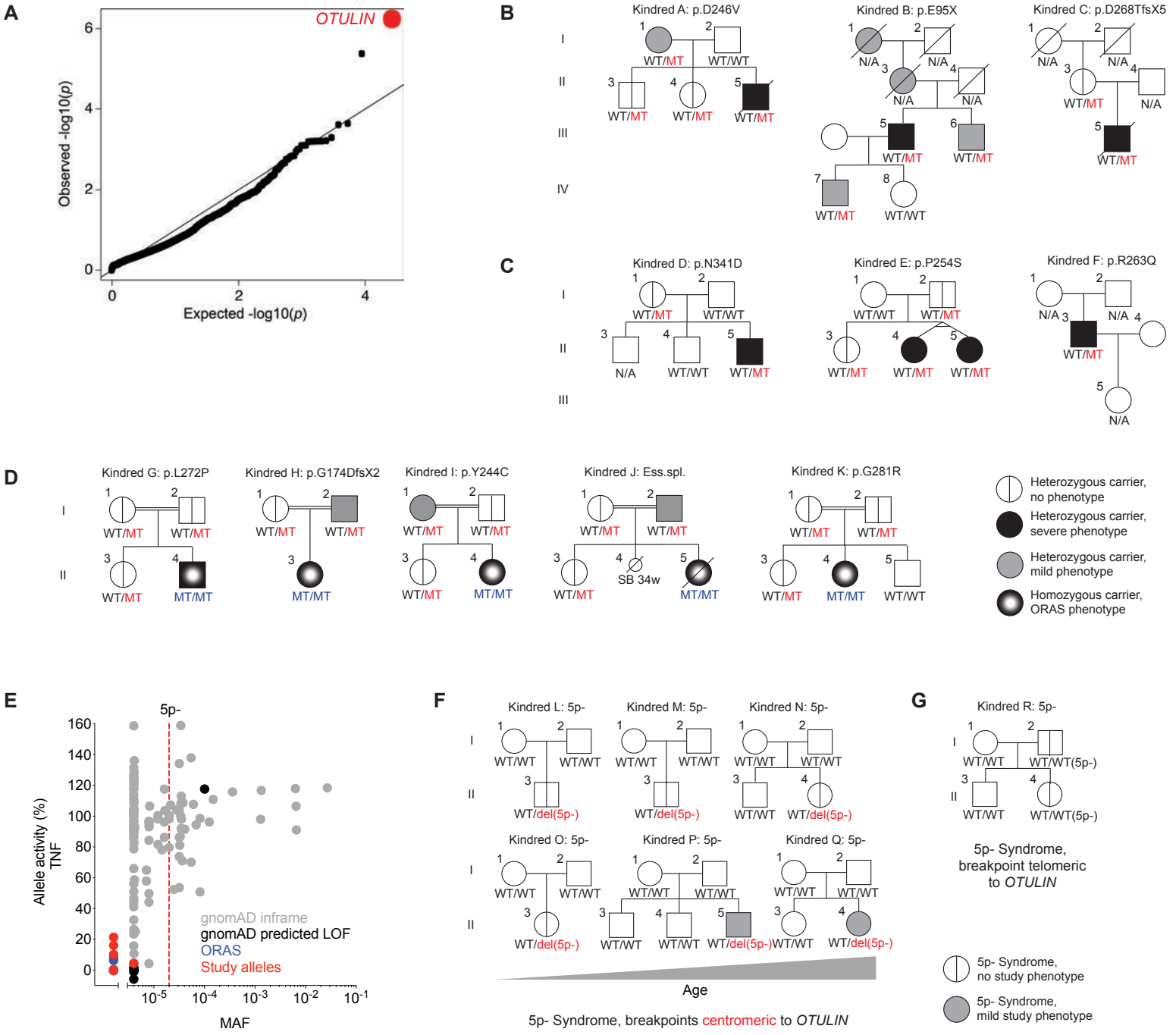

A
OTULIN
Observed -log10(p)
Expected -log10(p)
B
Kindred A: p.D246V
Kindred B: p.E95X
Kindred C: p.D268TfsX5
C
Kindred D: p.N341D
Kindred E: p.P254S
Kindred F: p.R263Q
D
Kindred G: p.L272P
Kindred H: p.G174DfsX2
Kindred I: p.Y244C
Kindred J: Ess.spl.
Kindred K: p.G281R
SB 34w
Heterozygous carrier, no phenotype
Heterozygous carrier, severe phenotype
Heterozygous carrier, mild phenotype
Homozygous carrier, ORAS phenotype
E
5p-
Allele activity (%) TNF
MAF
gnomAD inframe
gnomAD predicted LOF
ORAS
Study alleles
F
Kindred L: 5p-
Kindred M: 5p-
Kindred N: 5p-
Kindred O: 5p-
Kindred P: 5p-
Kindred Q: 5p-
Age
5p- Syndrome, breakpoints centromeric to OTULIN
G
Kindred R: 5p-
5p- Syndrome, breakpoint telomeric to OTULIN
5p- Syndrome, no study phenotype
5p- Syndrome, mild study phenotype

Figure 1

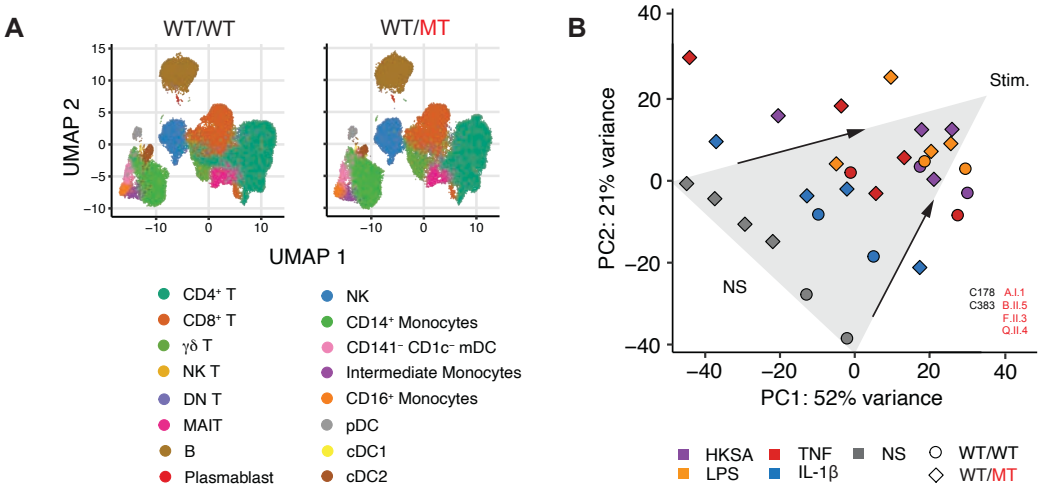

A
WT/WT
WT/MT
UMAP 2
UMAP 1
CD4⁺ T
CD8⁺ T
γδ T
NK T
DN T
MAIT
B
Plasmablast
NK
CD14⁺ Monocytes
CD141⁻ CD1c⁻ mDC
Intermediate Monocytes
CD16⁺ Monocytes
pDC
cDC1
cDC2
B
PC2: 21% variance
PC1: 52% variance
Stim.
NS
C178 A.I.1
C383 B.II.5
F.II.3
Q.II.4
HKSA
LPS
TNF
IL-1β
NS
WT/WT
WT/MT

Figure 2

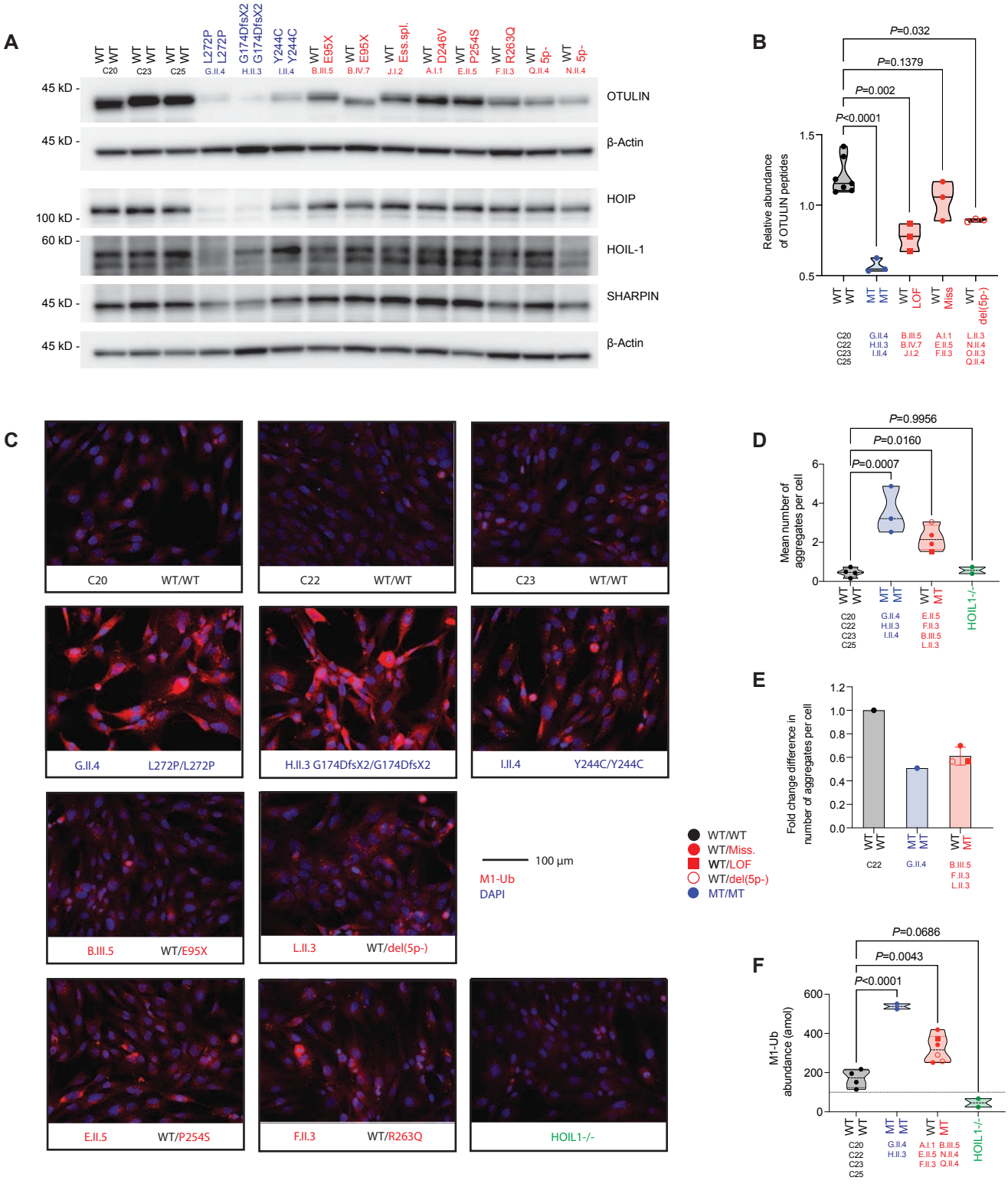

A
WT WT C20
WT WT C23
WT WT C25
L272P L272P G.II.4
G174DfsX2 G174DfsX2 H.II.3
Y244C Y244C I.II.4
WT E95X B.III.5
WT E95X B.IV.7
WT Ess.spl. J.I.2
WT D246V A.I.1
WT P254S E.II.5
WT R263Q F.II.3
WT 5p- Q.II.4
WT 5p- N.II.4
45 kD -
OTULIN
45 kD -
β-Actin
HOIP
100 kD -
60 kD -
HOIL-1
45 kD -
SHARPIN
45 kD -
β-Actin
B
P=0.032
P=0.1379
P=0.002
P<0.0001
Relative abundance of OTULIN peptides
1.5
1.0
0.5
WT WT
MT MT
WT LOF
WT Miss
WT del(5p-)
C20 C22 C23 C25
G.II.4 H.II.3 I.II.4
B.III.5 B.IV.7 J.I.2
A.I.1 E.II.5 F.II.3
L.II.3 N.II.4 O.II.3 Q.II.4
C
C20 WT/WT
C22 WT/WT
C23 WT/WT
G.II.4 L272P/L272P
H.II.3 G174DfsX2/G174DfsX2
I.II.4 Y244C/Y244C
B.III.5 WT/E95X
L.II.3 WT/del(5p-)
E.II.5 WT/P254S
F.II.3 WT/R263Q
HOIL1-/-
100 µm
M1-Ub
DAPI
WT/WT
WT/Miss.
WT/LOF
WT/del(5p-)
MT/MT
D
P=0.9956
P=0.0160
P=0.0007
Mean number of aggregates per cell
6
4
2
0
WT WT
MT MT
WT MT
WT MT
HOIL1-/-
C20 C22 C23 C25
G.II.4 H.II.3 I.II.4
E.II.5 F.II.3 B.III.5 L.II.3
E
Fold change difference in number of aggregates per cell
1.2
1.0
0.8
0.6
0.4
0.2
0.0
WT WT
MT MT
WT MT
C22
G.II.4
B.III.5 F.II.3 L.II.3
F
P=0.0686
P=0.0043
P<0.0001
M1-Ub abundance (amol)
600
400
200
0
WT WT
MT MT
WT MT
WT MT
HOIL1-/-
C20 C22 C23 C25
G.II.4 H.II.3
A.I.1 E.II.5 F.II.3
B.III.5 N.II.4 Q.II.4

Figure 3

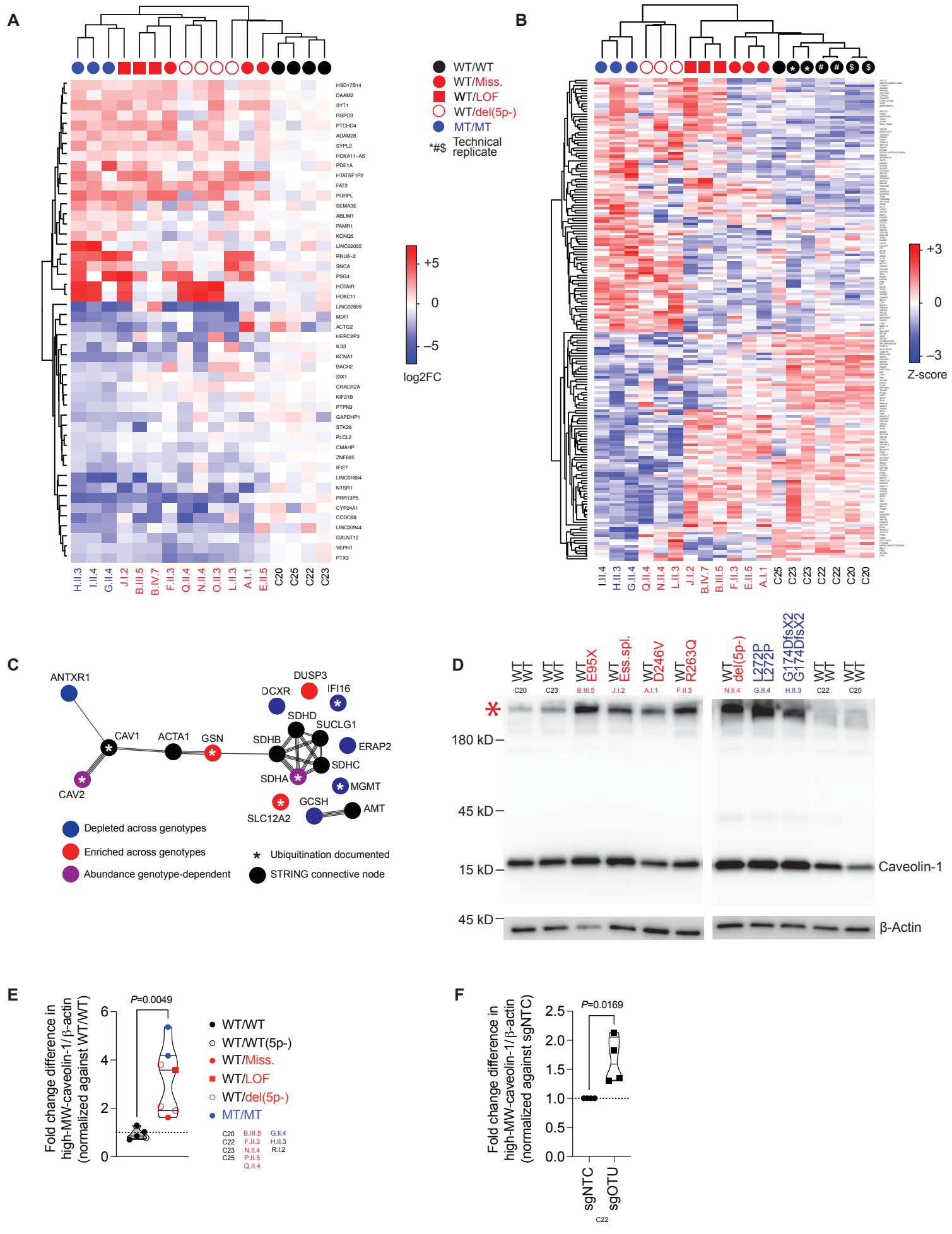

A
B
WT/WT
WT/Miss.
WT/LOF
WT/del(5p-)
MT/MT
*#$ Technical replicate
+5
0
−5
log2FC
+3
0
−3
Z-score
HSD17B14
DAAM2
SYT1
RSPO3
PTCHD4
ADAM28
SYPL2
HOXA11−AS
PDE1A
HTATSF1P2
FAT3
PURPL
SEMA3E
ABLIM1
PAMR1
KCNQ5
LINC02055
RNU6−2
SNCA
PSG4
HOTAIR
HOXC11
LINC02899
MDFI
ACTG2
HERC2P3
IL33
KCNA1
BACH2
SIX1
CRACR2A
KIF21B
PTPN3
GAPDHP1
STK26
PLCL2
CMAHP
ZNF695
IFI27
LINC01684
NTSR1
PRR13P5
CYP24A1
CCDC68
LINC00944
GALNT12
VEPH1
PTX3
H.II.3 I.II.4 G.II.4 J.I.2 B.III.5 B.IV.7 F.II.3 Q.II.4 N.II.4 O.II.3 L.II.3 A.I.1 E.II.5 C20 C25 C22 C23
I.II.4 H.II.3 G.II.4 Q.II.4 N.II.4 L.II.3 J.I.2 B.IV.7 B.III.5 F.II.3 E.II.5 A.I.1 C25 C23 C23 C22 C22 C20 C20
C
ANTXR1
CAV1
CAV2
ACTA1
GSN
DUSP3
DCXR
IFI16
SDHD
SUCLG1
SDHB
ERAP2
SDHC
SDHA
MGMT
GCSH
AMT
SLC12A2
Depleted across genotypes
Enriched across genotypes
Abundance genotype-dependent
Ubiquitination documented
STRING connective node
D
WT WT
WT WT
WT E95X
WT Ess.spl.
WT D246V
WT R263Q
WT del(5p-)
L272P L272P
G174DfsX2 G174DfsX2
WT WT
WT WT
C20 C23 B.III.5 J.I.2 A.I.1 F.II.3 N.II.4 G.II.4 H.II.3 C22 C25
180 kD
45 kD
15 kD
45 kD
Caveolin-1
β-Actin
E
P=0.0049
Fold change difference in high-MW-caveolin-1/β-actin (normalized against WT/WT)
6
4
2
0
WT/WT
WT/WT(5p-)
WT/Miss.
WT/LOF
WT/del(5p-)
MT/MT
C20 B.III.5 G.II.4
C22 F.II.3 H.II.3
C23 N.II.4 R.I.2
C25 P.II.5
Q.II.4
F
P=0.0169
Fold change difference in high-MW-caveolin-1/β-actin (normalized against sgNTC)
2.5
2.0
1.5
1.0
0.5
0.0
sgNTC
sgOTU
C22

Figure 4

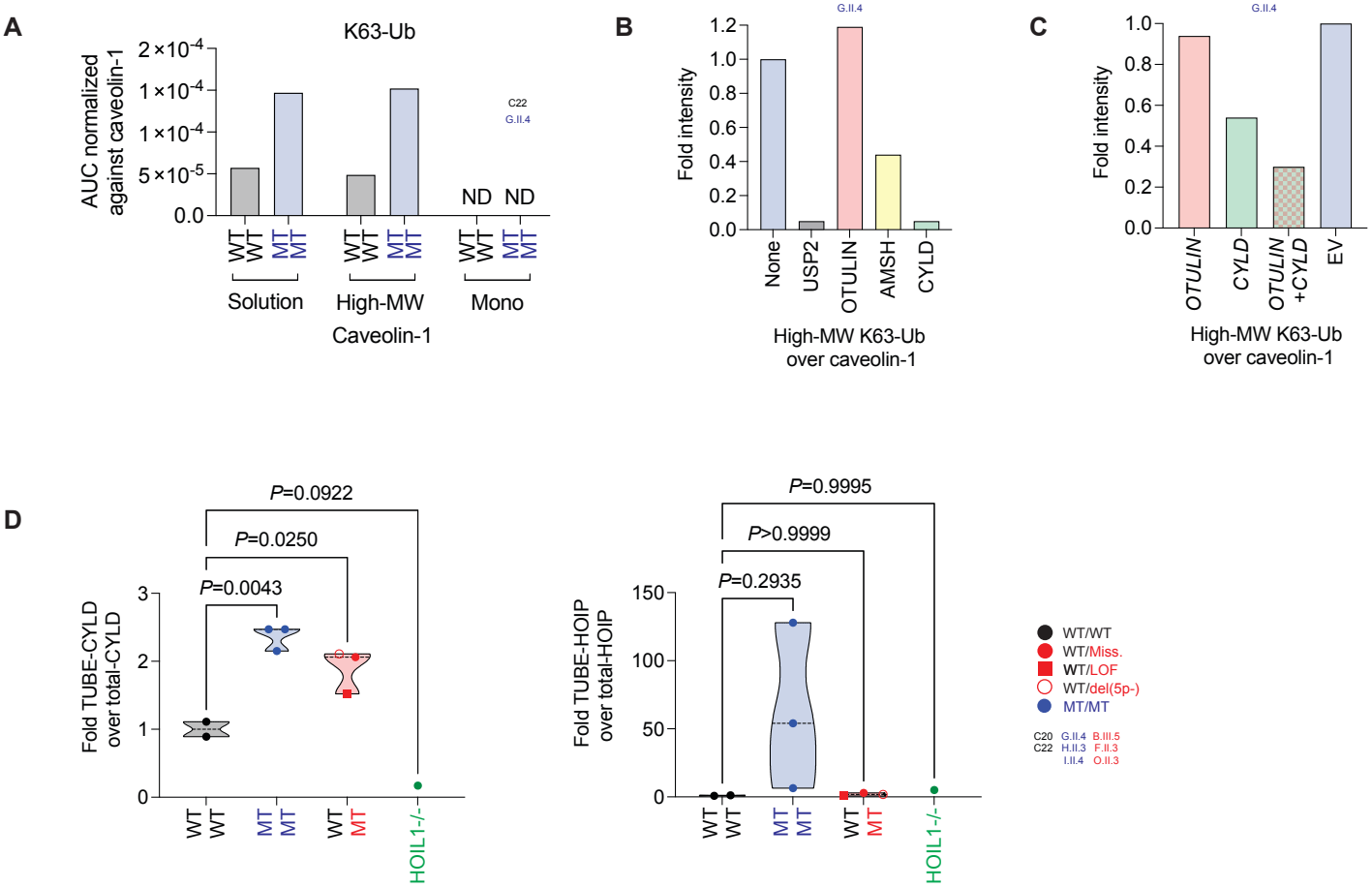

A
K63-Ub
AUC normalized against caveolin-1
2×10-4
1×10-4
1×10-4
5×10-5
0.0
C22
G.II.4
ND ND
WT WT MT MT WT WT MT MT WT WT MT MT
Solution
High-MW Caveolin-1
Mono
B
G.II.4
Fold intensity
1.2
1.0
0.8
0.6
0.4
0.2
0.0
None
USP2
OTULIN
AMSH
CYLD
High-MW K63-Ub over caveolin-1
C
G.II.4
Fold intensity
1.0
0.8
0.6
0.4
0.2
0.0
OTULIN
CYLD
OTULIN +CYLD
EV
High-MW K63-Ub over caveolin-1
D
P=0.0922
P=0.0250
P=0.0043
Fold TUBE-CYLD over total-CYLD
3
2
1
0
WT WT
MT MT
WT MT
HOIL1-/-
P=0.9995
P>0.9999
P=0.2935
Fold TUBE-HOIP over total-HOIP
150
100
50
0
WT WT
MT MT
WT MT
HOIL1-/-
WT/WT
WT/Miss.
WT/LOF
WT/del(5p-)
MT/MT
C20 G.II.4 B.III.5
C22 H.II.3 F.II.3
I.II.4 O.II.3

Figure 5

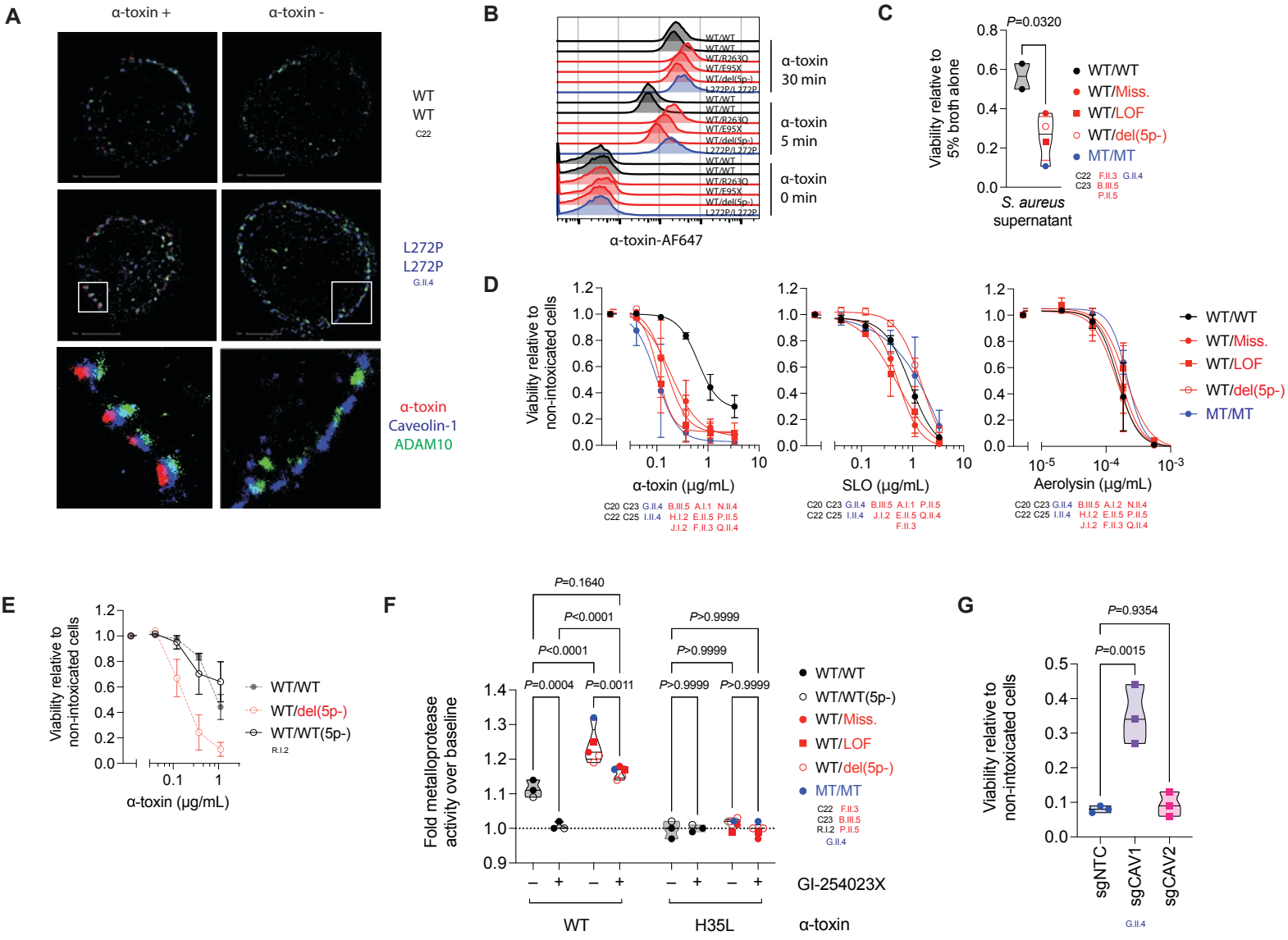

A
α-toxin +
α-toxin -
WT
WT
C22
L272P
L272P
G.II.4
α-toxin
Caveolin-1
ADAM10
B
WT/WT
WT/WT
WT/R263Q
WT/E95X
WT/del(5p-)
L272P/L272P
α-toxin
30 min
α-toxin
5 min
α-toxin
0 min
α-toxin-AF647
C
P=0.0320
Viability relative to
5% broth alone
S. aureus
supernatant
WT/WT
WT/Miss.
WT/LOF
WT/del(5p-)
MT/MT
C22 F.II.3 G.II.4
C23 B.III.5
P.II.5
D
Viability relative to
non-intoxicated cells
α-toxin (μg/mL)
SLO (μg/mL)
Aerolysin (μg/mL)
C20 C23 G.II.4 B.III.5 A.I.1 N.II.4
C22 C25 I.II.4 H.I.2 E.II.5 P.II.5
J.I.2 F.II.3 Q.II.4
C20 C23 G.II.4 B.III.5 A.I.1 P.II.5
C22 C25 I.II.4 J.I.2 E.II.5 Q.II.4
F.II.3
C20 C23 G.II.4 B.III.5 A.I.2 N.II.4
C22 C25 I.II.4 H.I.2 E.II.5 P.II.5
J.I.2 F.II.3 Q.II.4
WT/WT
WT/Miss.
WT/LOF
WT/del(5p-)
MT/MT
E
Viability relative to
non-intoxicated cells
α-toxin (μg/mL)
WT/WT
WT/del(5p-)
WT/WT(5p-)
R.I.2
F
P=0.1640
P<0.0001
P<0.0001
P=0.0004
P=0.0011
P>0.9999
P>0.9999
P>0.9999
P>0.9999
Fold metalloprotease
activity over baseline
WT/WT
WT/WT(5p-)
WT/Miss.
WT/LOF
WT/del(5p-)
MT/MT
C22 F.II.3
C23 B.III.5
R.I.2 P.II.5
G.II.4
GI-254023X
WT
H35L
α-toxin
G
P=0.9354
P=0.0015
Viability relative to
non-intoxicated cells
sgNTC
sgCAV1
sgCAV2
G.II.4

Figure 6

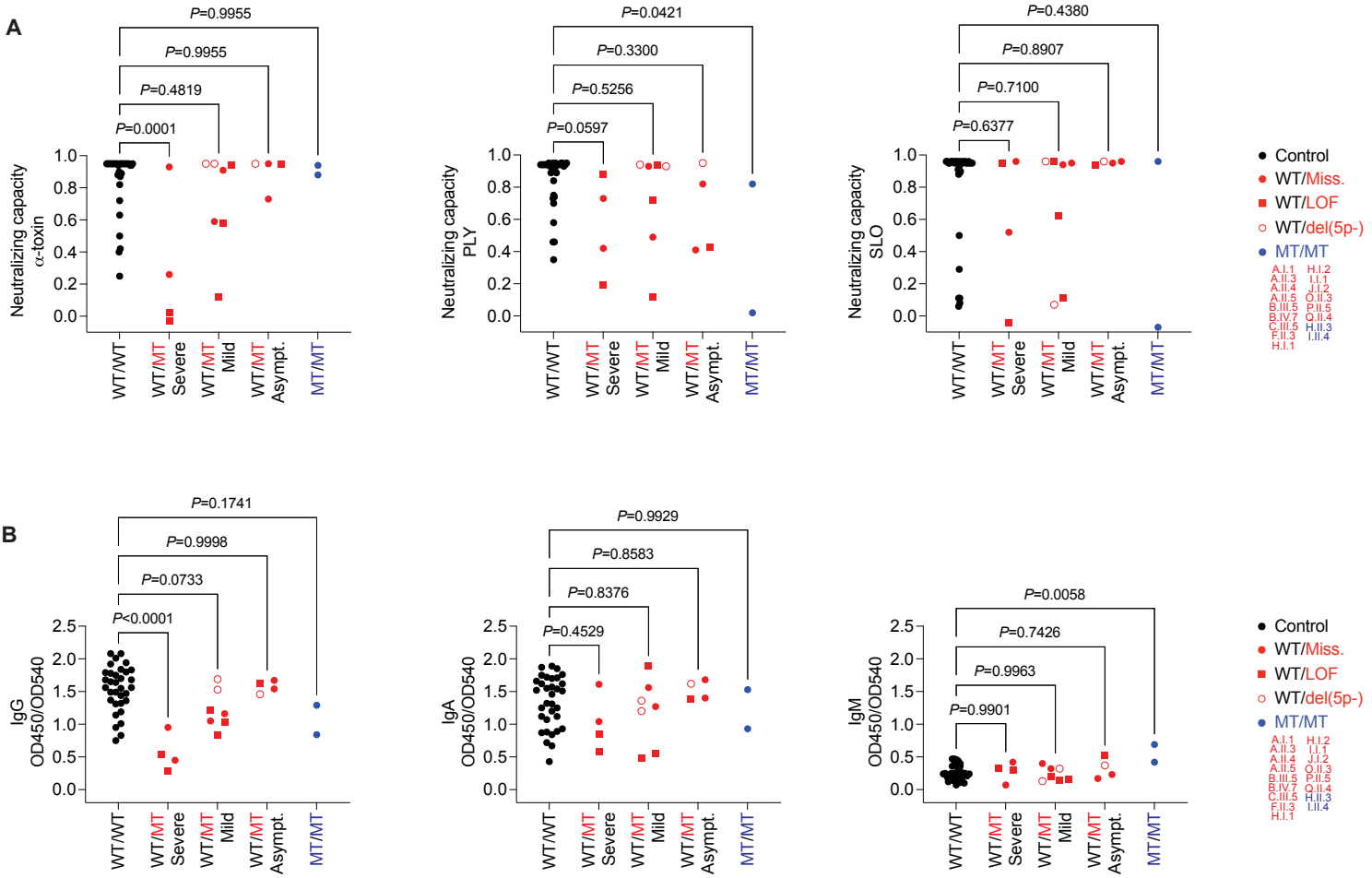
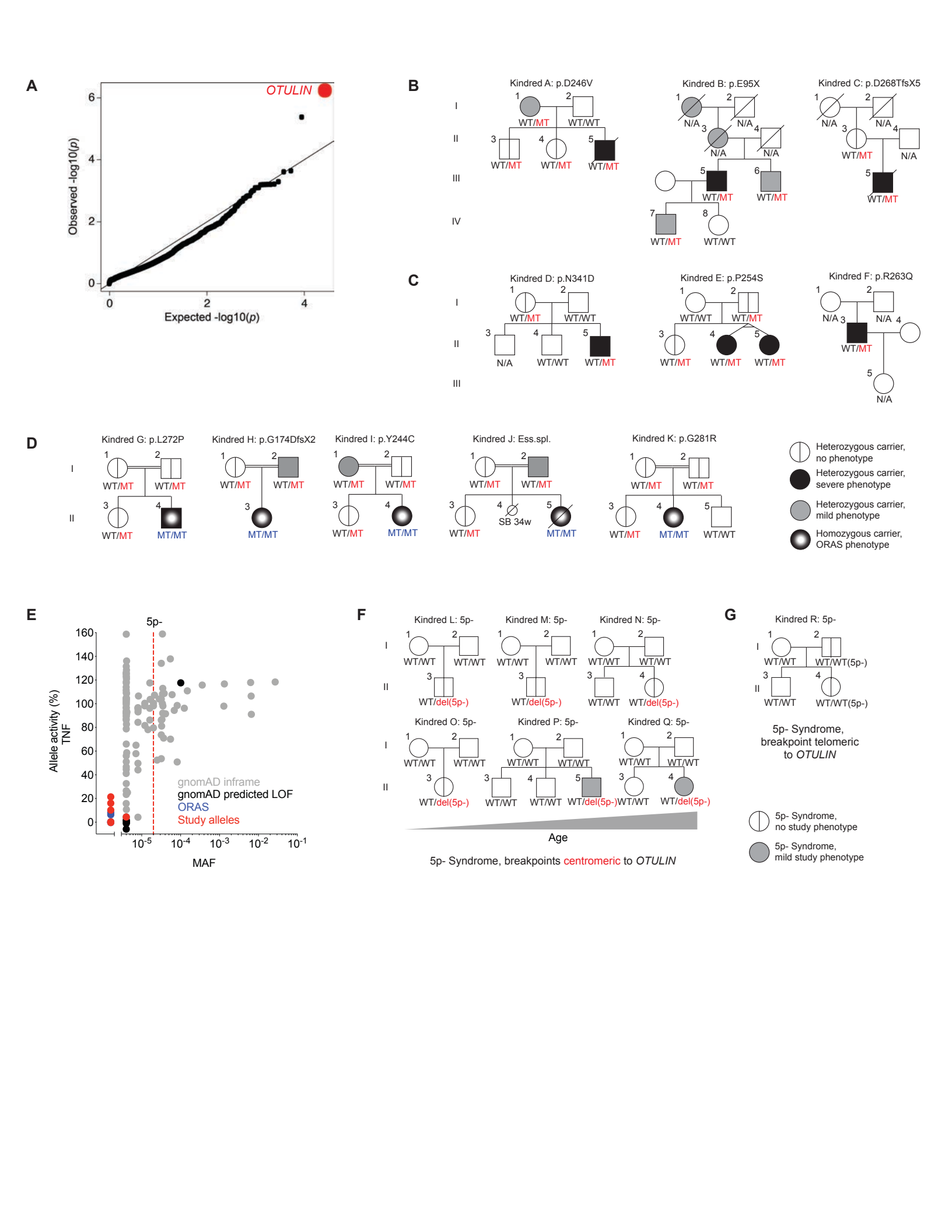
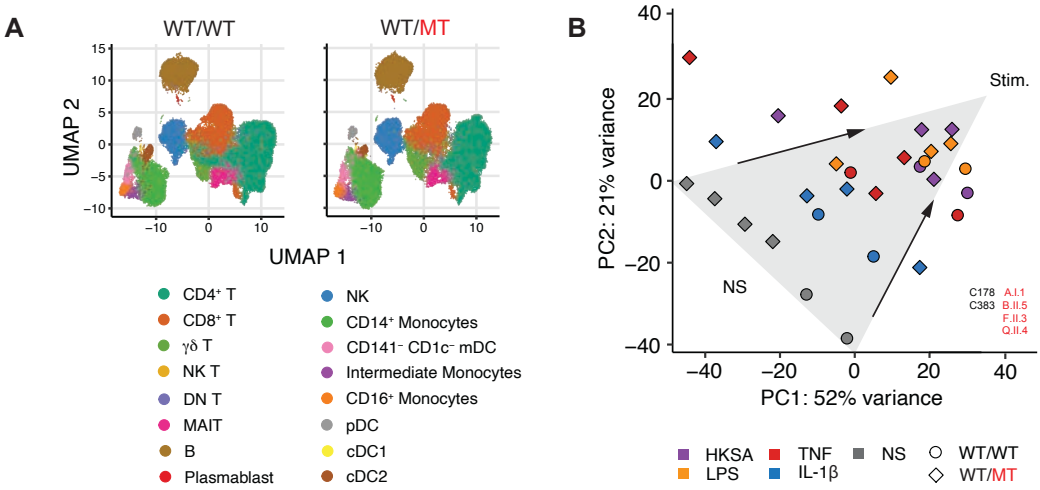
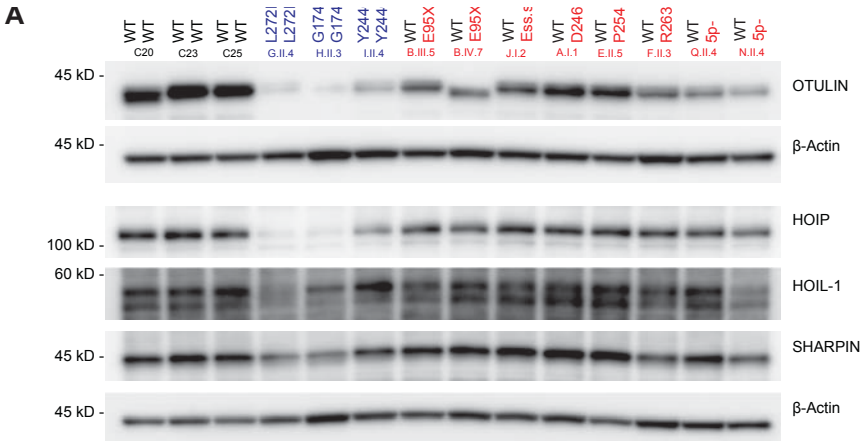
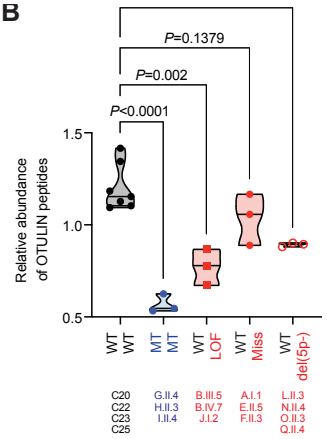

A
P=0.9955
P=0.9955
P=0.4819
P=0.0001
Neutralizing capacity α-toxin
1.0
0.8
0.6
0.4
0.2
0.0
WT/WT
WT/MT Severe
WT/MT Mild
WT/MT Asympt.
MT/MT
P=0.0421
P=0.3300
P=0.5256
P=0.0597
Neutralizing capacity PLY
P=0.4380
P=0.8907
P=0.7100
P=0.6377
Neutralizing capacity SLO
Control
WT/Miss.
WT/LOF
WT/del(5p-)
MT/MT
A.I.1 H.I.2
A.II.3 I.I.1
A.II.4 J.I.2
A.II.5 O.II.3
B.III.5 P.II.5
B.IV.7 Q.II.4
C.III.5 H.II.3
F.II.3 I.II.4
H.I.1
B
P=0.1741
P=0.9998
P=0.0733
P<0.0001
IgG OD450/OD540
2.5
2.0
1.5
1.0
0.5
0.0
P=0.9929
P=0.8583
P=0.8376
P=0.4529
IgA OD450/OD540
P=0.0058
P=0.7426
P=0.9963
P=0.9901
IgM OD450/OD540
Control
WT/Miss.
WT/LOF
WT/del(5p-)
MT/MT
A.I.1 H.I.2
A.II.3 I.I.1
A.II.4 J.I.2
A.II.5 O.II.3
B.III.5 P.II.5
B.IV.7 Q.II.4
C.III.5 H.II.3
F.II.3 I.II.4
H.I.1

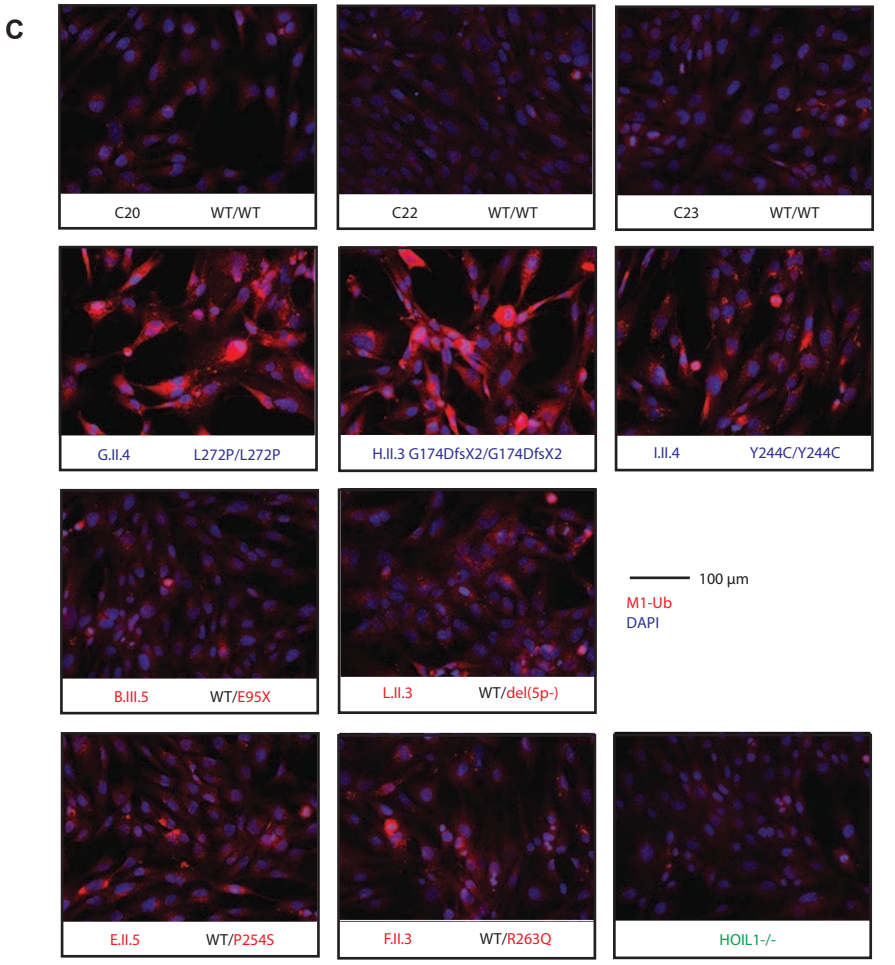
Figure 7

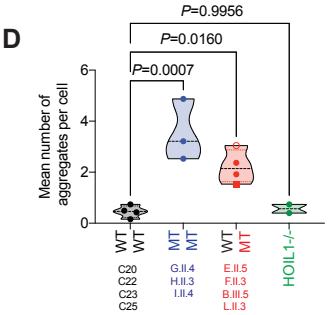

A
OTULIN
Observed -log10(p)
Expected -log10(p)
B
Kindred A: p.D246V
Kindred B: p.E95X
Kindred C: p.D268TfsX5
C
Kindred D: p.N341D
Kindred E: p.P254S
Kindred F: p.R263Q
D
Kindred G: p.L272P
Kindred H: p.G174DfsX2
Kindred I: p.Y244C
Kindred J: Ess.spl.
Kindred K: p.G281R
SB 34w
Heterozygous carrier, no phenotype
Heterozygous carrier, severe phenotype
Heterozygous carrier, mild phenotype
Homozygous carrier, ORAS phenotype
E
5p-
Allele activity (%) TNF
MAF
gnomAD inframe
gnomAD predicted LOF
ORAS
Study alleles
F
Kindred L: 5p-
Kindred M: 5p-
Kindred N: 5p-
Kindred O: 5p-
Kindred P: 5p-
Kindred Q: 5p-
Age
5p- Syndrome, breakpoints centromeric to OTULIN
G
Kindred R: 5p-
5p- Syndrome, breakpoint telomeric to OTULIN
5p- Syndrome, no study phenotype
5p- Syndrome, mild study phenotype

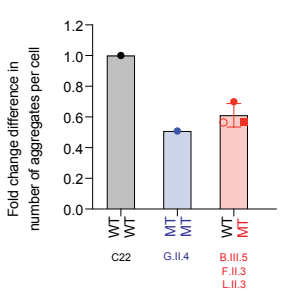

A
WT/WT
WT/MT
UMAP 2
UMAP 1
CD4⁺ T
CD8⁺ T
γδ T
NK T
DN T
MAIT
B
Plasmablast
NK
CD14⁺ Monocytes
CD141⁻ CD1c⁻ mDC
Intermediate Monocytes
CD16⁺ Monocytes
pDC
cDC1
cDC2
B
PC2: 21% variance
PC1: 52% variance
Stim.
NS
C178 A.I.1
C383 B.II.5
F.II.3
Q.II.4
HKSA
LPS
TNF
IL-1β
NS
WT/WT
WT/MT

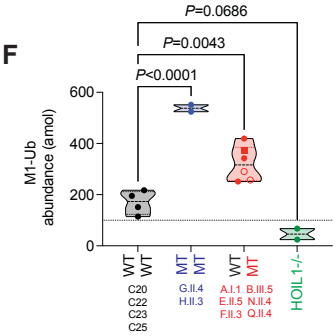

A
WT WT C20
WT WT C23
WT WT C25
L272I L272I G.II.4
G174 G174 H.II.3
Y244 Y244 I.II.4
WT E95X B.III.5
WT E95X B.IV.7
WT Ess.s J.I.2
WT D246 A.I.1
WT P254 E.II.5
WT R263 F.II.3
WT 5p- Q.II.4
WT 5p- N.II.4
45 kD -
OTULIN
45 kD -
β-Actin
HOIP
100 kD -
60 kD -
HOIL-1
45 kD -
SHARPIN
45 kD -
β-Actin

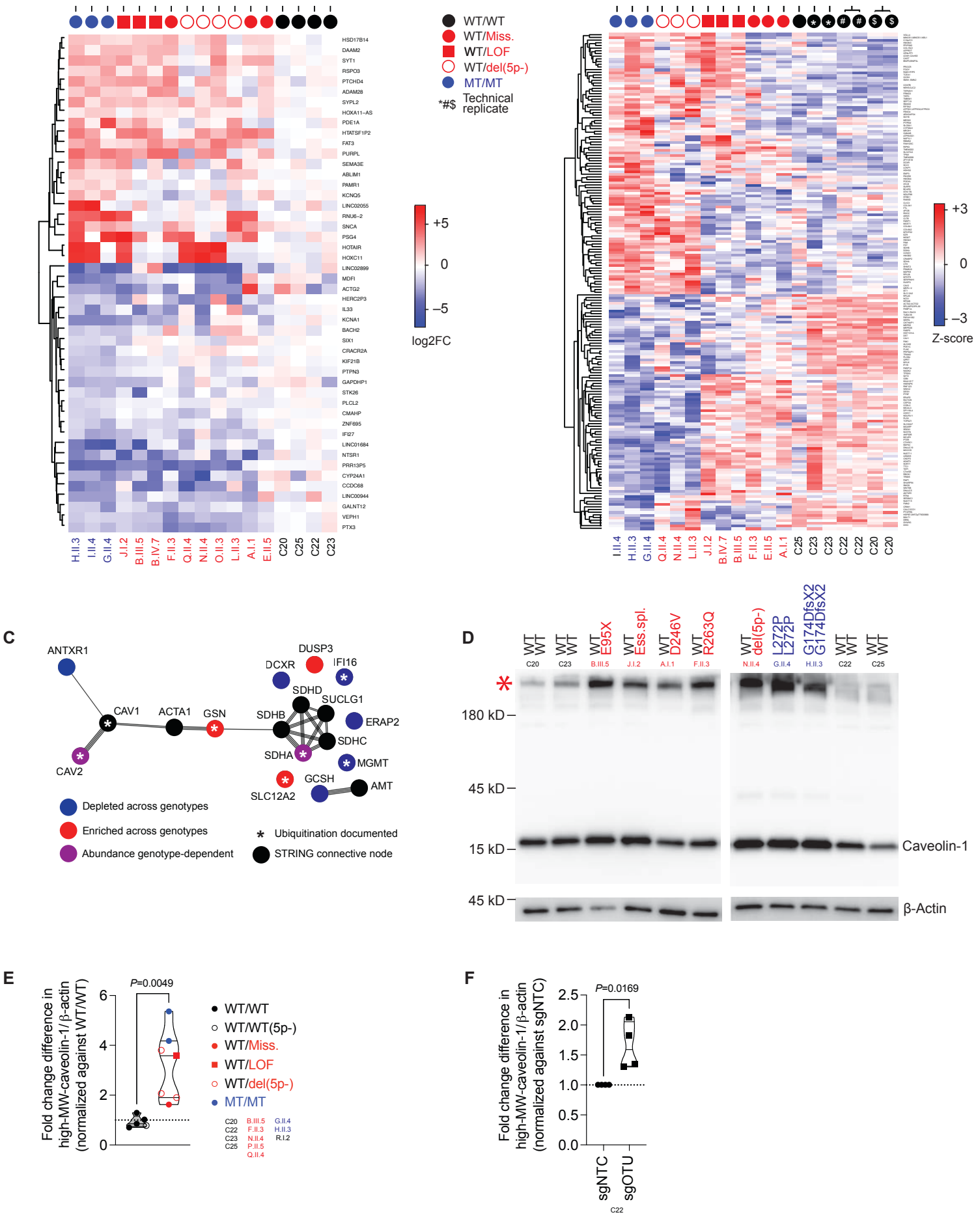

B
P=0.1379
P=0.002
P<0.0001
Relative abundance of OTULIN peptides
1.5
1.0
0.5
WT WT
MT MT
WT LOF
WT Miss
WT del(5p-)
C20 C22 C23 C25
G.II.4 H.II.3 I.II.4
B.III.5 B.IV.7 J.I.2
A.I.1 E.II.5 F.II.3
L.II.3 N.II.4 O.II.3 Q.II.4

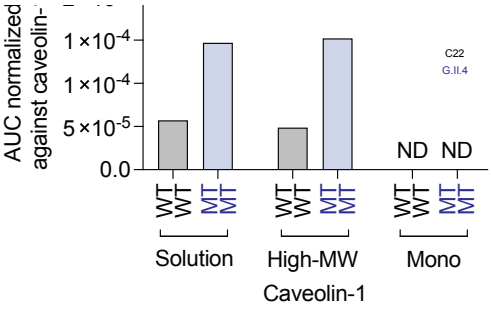

C
C20 WT/WT
C22 WT/WT
C23 WT/WT
G.II.4 L272P/L272P
H.II.3 G174DfsX2/G174DfsX2
I.II.4 Y244C/Y244C
B.III.5 WT/E95X
L.II.3 WT/del(5p-)
E.II.5 WT/P254S
F.II.3 WT/R263Q
HOIL1-/-
100 µm
M1-Ub
DAPI
WT/WT
WT/Miss.
WT/LOF
WT/del(5p-)
MT/MT

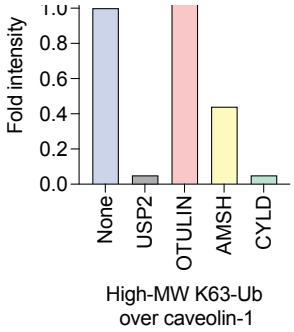

D
P=0.9956
P=0.0160
P=0.0007
Mean number of aggregates per cell
6
4
2
0
WT WT
MT MT
WT MT
HOIL1-/-
C20 C22 C23 C25
G.II.4 H.II.3 I.II.4
E.II.5 F.II.3 B.III.5 L.II.3

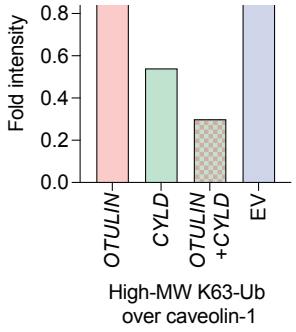

E
Fold change difference in number of aggregates per cell
1.2
1.0
0.8
0.6
0.4
0.2
0.0
WT WT
MT MT
WT MT
C22
G.II.4
B.III.5 F.II.3 L.II.3


F
P=0.0686
P=0.0043
P<0.0001
M1-Ub abundance (amol)
600
400
200
0
WT WT
MT MT
WT MT
HOIL1-/-
C20 C22 C23 C25
G.II.4 H.II.3
A.I.1 E.II.5 F.II.3
B.III.5 N.II.4 Q.II.4

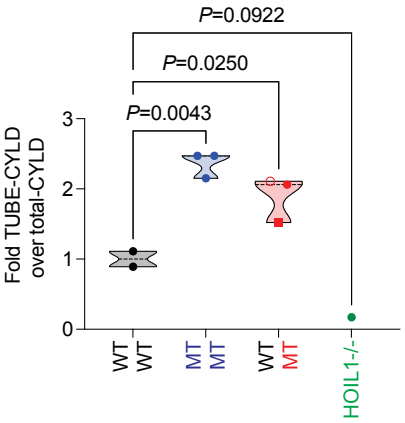

WT/WT
WT/Miss.
WT/LOF
WT/del(5p-)
MT/MT
*#$ Technical replicate
+5
0
−5
log2FC
+3
0
−3
Z-score
HSD17B14
DAAM2
SYT1
RSPO3
PTCHD4
ADAM28
SYPL2
HOXA11−AS
PDE1A
HTATSF1P2
FAT3
PURPL
SEMA3E
ABLIM1
PAMR1
KCNQ5
LINC02055
RNU6−2
SNCA
PSG4
HOTAIR
HOXC11
LINC02899
MDFI
ACTG2
HERC2P3
IL33
KCNA1
BACH2
SIX1
CRACR2A
KIF21B
PTPN3
GAPDHP1
STK26
PLCL2
CMAHP
ZNF695
IFI27
LINC01684
NTSR1
PRR13P5
CYP24A1
CCDC68
LINC00944
GALNT12
VEPH1
PTX3
H.II.3 I.II.4 G.II.4 J.I.2 B.III.5 B.IV.7 F.II.3 Q.II.4 N.II.4 O.II.3 L.II.3 A.I.1 E.II.5 C20 C25 C22 C23
I.II.4 H.II.3 G.II.4 Q.II.4 N.II.4 L.II.3 J.I.2 B.IV.7 B.III.5 F.II.3 E.II.5 A.I.1 C25 C23 C23 C22 C22 C20 C20
C
ANTXR1
CAV1
CAV2
ACTA1
GSN
DUSP3
DCXR
IFI16
SDHD
SUCLG1
SDHB
ERAP2
SDHC
SDHA
MGMT
GCSH
AMT
SLC12A2
Depleted across genotypes
Enriched across genotypes
Abundance genotype-dependent
* Ubiquitination documented
STRING connective node
D
WT WT
WT WT
WT E95X
WT Ess.spl.
WT D246V
WT R263Q
WT del(5p-)
L272P L272P
G174DfsX2 G174DfsX2
WT WT
WT WT
C20 C23 B.III.5 J.I.2 A.I.1 F.II.3 N.II.4 G.II.4 H.II.3 C22 C25
180 kD
45 kD
15 kD
45 kD
Caveolin-1
β-Actin
E
P=0.0049
Fold change difference in high-MW-caveolin-1/β-actin (normalized against WT/WT)
6
4
2
0
WT/WT
WT/WT(5p-)
WT/Miss.
WT/LOF
WT/del(5p-)
MT/MT
C20 B.III.5 G.II.4
C22 F.II.3 H.II.3
C23 N.II.4 R.I.2
C25 P.II.5
Q.II.4
F
P=0.0169
Fold change difference in high-MW-caveolin-1/β-actin (normalized against sgNTC)
2.5
2.0
1.5
1.0
0.5
0.0
sgNTC
sgOTU
C22

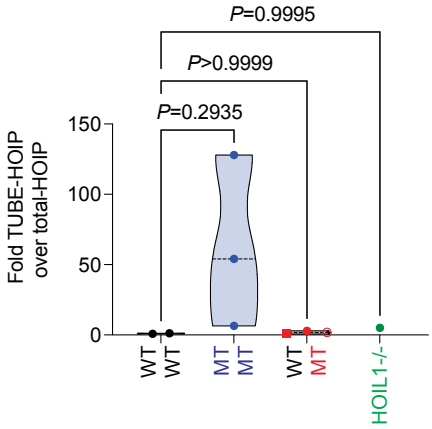

AUC normalized against caveolin-
1×10-4
1×10-4
5×10-5
0.0
C22
G.II.4
ND ND
WT WT
MT MT
WT WT
MT MT
WT WT
MT MT
Solution
High-MW Caveolin-1
Mono

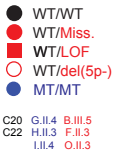

Fold intensity
1.0
0.8
0.6
0.4
0.2
0.0
None
USP2
OTULIN
AMSH
CYLD
High-MW K63-Ub over caveolin-1

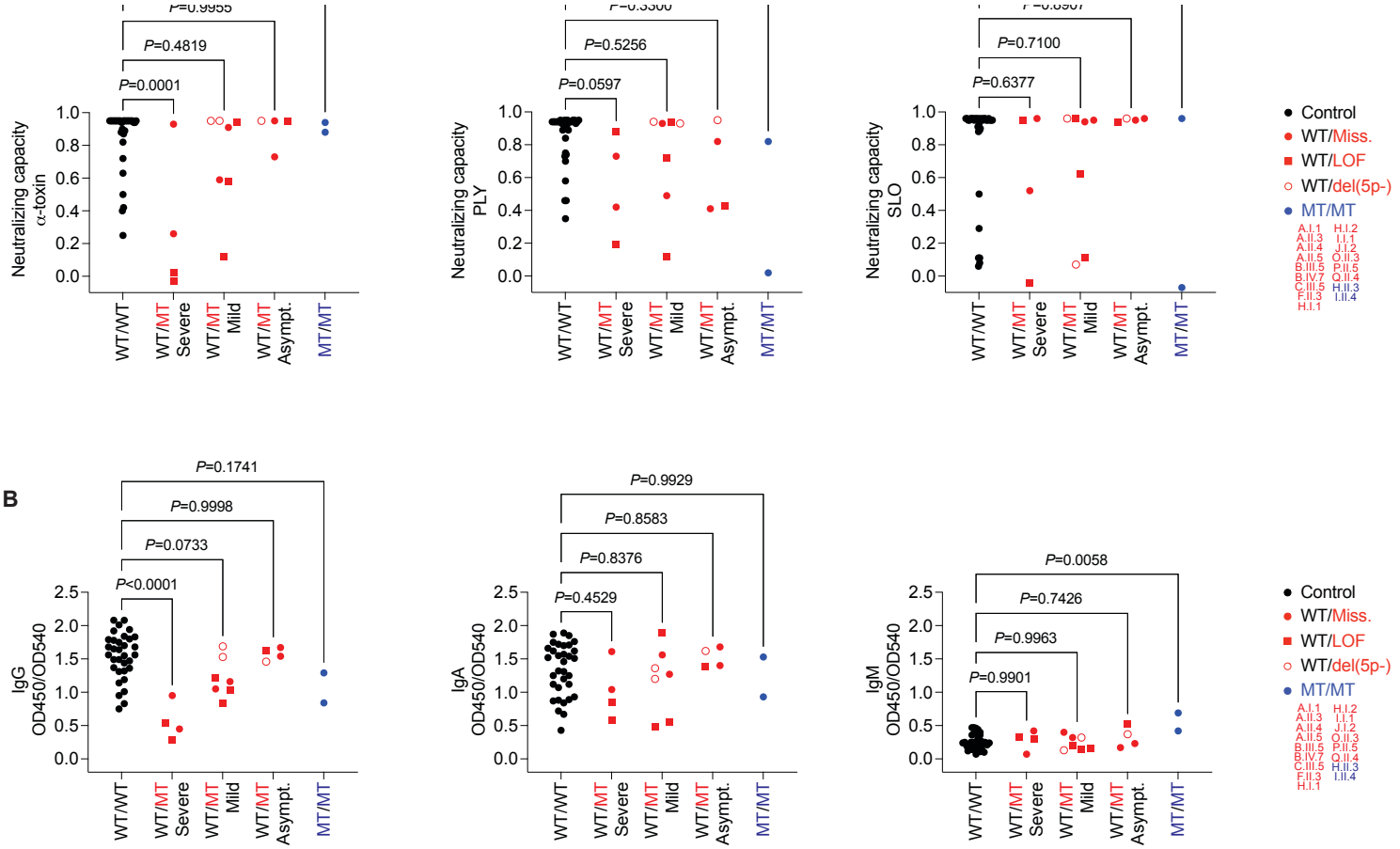

Fold intensity
0.8
0.6
0.4
0.2
0.0
OTULIN
CYLD
OTULIN +CYLD
EV
High-MW K63-Ub over caveolin-1

D


P=0.0922
P=0.0250
P=0.0043
Fold TUBE-CYLD over total-CYLD
3
2
1
0
WT WT
MT MT
WT MT
HOIL1-/-


P=0.9995
P>0.9999
P=0.2935
Fold TUBE-HOIP over total-HOIP
150
100
50
0
WT WT
MT MT
WT MT
HOIL1-/-


WT/WT
WT/Miss.
WT/LOF
WT/del(5p-)
MT/MT
C20 G.II.4 B.III.5
C22 H.II.3 F.II.3
I.II.4 O.II.3


P=0.9955
P=0.4819
P=0.0001
Neutralizing capacity α-toxin
P=0.5256
P=0.0597
Neutralizing capacity PLY
P=0.7100
P=0.6377
Neutralizing capacity SLO
1.0
0.8
0.6
0.4
0.2
0.0
WT/WT
WT/MT Severe
WT/MT Mild
WT/MT Asympt.
MT/MT
Control
WT/Miss.
WT/LOF
WT/del(5p-)
MT/MT
A.I.1 H.I.2
A.II.3 I.I.1
A.II.4 J.I.2
A.II.5 O.II.3
B.III.5 P.II.5
B.IV.7 Q.II.4
C.III.5 H.II.3
F.II.3 I.II.4
H.I.1

B

P=0.1741
P=0.9998
P=0.0733
P<0.0001
IgG OD450/OD540
P=0.9929
P=0.8583
P=0.8376
P=0.4529
IgA OD450/OD540
P=0.0058
P=0.7426
P=0.9963
P=0.9901
IgM OD450/OD540
2.5
2.0
1.5
1.0
0.5
0.0
WT/WT
WT/MT Severe
WT/MT Mild
WT/MT Asympt.
MT/MT
Control
WT/Miss.
WT/LOF
WT/del(5p-)
MT/MT
A.I.1 H.I.2
A.II.3 I.I.1
A.II.4 J.I.2
A.II.5 O.II.3
B.III.5 P.II.5
B.IV.7 Q.II.4
C.III.5 H.II.3
F.II.3 I.II.4
H.I.1

Science
AAAS

Supplementary Materials for

Human OTULIN haploinsufficiency impairs cell-intrinsic immunity to staphylococcal α-toxin

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Case reports for the patients studied

Patient A.II.5 was born to unrelated Dutch parents and had an unremarkable medical history. He was vaccinated according to national guidelines. At the age of 19 years, and following a seasonal influenza B virus infection, he was admitted to the intensive care unit (ICU) for bilateral community-acquired necrotizing pneumonia. Methicillin-resistant *S. aureus* (MRSA) was isolated from sputum, bronchoalveolar lavage and blood cultures. With the exception of leukocytosis dominated by neutrophilic granulocytes, no abnormalities were found in routine leukocyte differentiation tests upon admission to the ICU. The pneumonia was progressive, and the patient developed an adult respiratory distress syndrome with septic shock. Despite antibiotic treatment and supportive therapy, the patient died from multiple organ failure. The patient's parents and siblings were screened for MRSA carriage and all tested negative. The patient's OTULIN variant (p.D246V) was carried by his mother and both siblings. The mother, patient A.I.1, who is now 60 years old, had suffered from two episodes of community-acquired pneumonia, one of which required admission to a general hospital ward for intravenous treatment with antibiotics. Routine leukocyte differentiation tests in patient A.I.1 revealed no abnormalities. The sister, patient A.II.4, is now 30 years old. She reported multiple episodes of mild upper respiratory tract infections and one episode of pneumonia during childhood, none of which required hospitalization. Diagnostic cellular immunophenotyping in patient A.II.4 revealed no abnormalities and normal levels of immunoglobulins, with detectable titers of antibodies against various serotypes of *Streptococcus pneumoniae* and *Haemophilus influenzae* type B. No complement deficiencies were detected, and no defects were found in the oxidative burst response of neutrophilic granulocytes to PMA and *Escherichia coli.* The brother, patient A.II.3, is now 25 years old. He reported no respiratory tract infections, but self-reported unusually severe acne vulgaris as a teenager and several episodes of impetigo.

Patient B.III.5, a 70-year-old Argentinian man, was born to non-consanguineous parents, and suffered from recurrent episodes of necrotizing cellulitis accompanied by septic shock. His first episode of necrotizing cellulitis occurred at the age of 14 years and he has since had four additional episodes, affecting various part of his body, two of which required skin grafts. *S. aureus* was repeatedly cultured from diagnostic samples obtained from the affected sites. The patient had been admitted to the hospital on multiple occasions for the treatment of community-acquired pneumonia with pneumosepsis. A dihydrorhodamine test revealed a normal oxidative burst in neutrophilic granulocytes. Diagnostic cellular immunophenotyping revealed no abnormalities and normal levels of immunoglobulins, with detectable titers of antibodies against various serotypes of *S. pneumoniae*, measles virus, and rubella virus. No complement deficiencies were detected. The patient's OTULIN variant (p.E95X) was also carried by his brother (patient B.III.6) and his son (patient B.IV.7). Patient B.III.6, now 72 years old, reported recurrent furunculosis requiring surgical drainage. Patient B.IV.7, now 37 years old, reported multiple episodes of community-acquired pneumonia, three of which required hospitalization for treatment with intravenous antibiotics. Like his father, patient B.IV.7 had no immunological abnormalities on routine diagnostic tests. The patient's mother and maternal grandmother reportedly suffered from the same infectious phenotype as patients B.III.6 and B.IV.7 during their lifetimes and died of non-infectious causes at an advanced age.

Patient C.III.5, a boy born to unrelated Mexican parents, was vaccinated in accordance with national guidelines. An exploratory laparotomy with appendectomy at the age of four years was complicated by surgical wound infections, with abscess formation and episodes of abdominal sepsis requiring admission to the intensive care unit. At eight years of age, following an episode

of community-acquired pneumonia, the patient developed spontaneous abscesses in the neck with septic shock. Surgical debridement revealed extensive necrotic tissue and fascia involvement necessitating skin graft transplantation. In the same year, the patient developed cellulitis of the leg, requiring intravenous antibiotic therapy. At the age of 10 years, the patient was admitted to the hospital for the drainage of multiple gluteal abscesses. The postoperative course was complicated by septic shock and deep tissue infections of the surgical wounds requiring skin graft transplantations. At the age of 16 years, an episode of community-acquired pneumonia was complicated by empyema. Between the ages of 16 and 18 years, the patient required surgery for the drainage of recurrent gluteal abscesses. Microbiological cultures revealed a polymicrobial etiology, including *S. aureus*. A dihydrorhodamine test revealed that the oxidative burst was normal in neutrophilic granulocytes. Repeated routine leukocyte differentiation tests revealed no abnormalities, with normal levels of immunoglobulins and no complement deficiencies. At the age of 18 years, the patient was diagnosed with recent human immunodeficiency virus infection, his last negative result for infection with this virus having been obtained at the age of 16 years. The patient subsequently refused further treatment for any of his conditions. At the age of 19 years, following a prolonged period of wasting, the patient died. The patient's OTULIN variant (p.D268TfsX5) was also carried by his mother (patient C.II.3). The mother, now 50 years old, suffered from non-inborn epilepsy of unknown etiology, and reported no particular infections of the respiratory tract or skin.

Patient D.II.5 is an 11-year-old boy who was born to non-consanguineous French parents and had suffered from recurrent severe necrotizing pneumonia, with intermittent recovery, since the age of 1.5 years. Despite repeated attempts at diagnosis, no microbiological cause was identified in analyses of bronchoalveolar lavage. Broad-spectrum antibiotics had no significant impact on recovery, but salvage therapy with steroids resulted in clinical improvement. A dihydrorhodamine test showed a normal oxidative burst in neutrophilic granulocytes. Diagnostic cellular immunophenotyping revealed no abnormalities and normal levels of immunoglobulins, with detectable titers of antibodies against various serotypes of *S. pneumoniae*, diphtheria and tetanus toxins, and poliovirus. No complement deficiencies were detected. The patient's OTULIN variant (p.N341D) was also carried by his mother (patient D.I.1). The mother, now 35 years old, reported no particular infections of the respiratory tract or skin.

Patient E.II.5, a monozygotic twin, is a 35-year-old woman who was born to non-consanguineous Belgian parents. Following a cesarean section, the patient suffered extensive necrosis of the skin surrounding the surgical wound. Her twin sister (patient E.II.4) suffered a similar episode of skin necrosis following elective surgery for breast reconstruction. No microbiological cause was identified in specimens taken from the affected wound areas. Pathological examinations for both patients revealed numerous intra-epidermal neutrophils with the formation of intra-epidermal pustules and vesicles. The dermis region was filled with abscesses containing neutrophils and debris. These findings were suggestive of pyoderma gangrenosum. Diagnostic cellular immunophenotyping revealed no abnormalities and normal levels of immunoglobulins. Lymphocyte mitogen stimulation tests were also normal and a dihydrorhodamine test showed a normal oxidative burst in neutrophilic granulocytes. The patients' OTULIN variant (p.P254S), was also carried by their father (patient E.I.2) and sister (patient E.II.3). Patients E.I.2 and E.II.3 reported no particular infections of the respiratory tract or skin, or complications of wound healing following surgery.

Patient F.II.3, a 46-year-old French man with non-consanguineous parents, had early complicated Crohn's disease beginning at the age of 10 years and requiring extensive colorectal

surgery. At the age of 42 years, during a relapse of his Crohn's disease that was poorly controlled by biotherapies, the patient presented severe hidradenitis suppurativa (stage 3 according to the Hurley grading system) affecting his axillae, anal cleft, pubis, and inguinal-genital area. Based on a suspected polymicrobial origin of the skin lesions, with the involvement of staphylococci (*107*), prolonged broad-spectrum intravenous antibiotic therapy was administered (*108*). Following this antibiotic induction therapy, the patient was in remission for hidradenitis suppurativa and his Crohn's disease improved significantly. Routine leukocyte differentiation tests showed no abnormalities, with normal levels of immunoglobulins. The patient's relatives refused genetic investigations into carriage of the patient's OTULIN variant (p.R263Q).

The clinical phenotypes of the ORAS family kindreds carrying deleterious alleles in heterozygosity were self-reported. Patient I.I.1, a 39-year-old Turkish woman (OTULIN variant p.Y244C (*32*)), and patient J.I.2, an adult Iranian man (carrying an essential splicing site mutation in the donor site of exon 6 (c.864+2 T>C) resulting in OTULIN variant p.W199-Q288del (*31*)), both reported recurrent furunculosis occurring from adolescence. No specimens were obtained for culture. Patient H.I.2, a 43-year-old Turkish man (OTULIN variant p.G174DfsX2 (*32*)), reported recurrent episodes of community-acquired pneumonia during his childhood, one of which required admission to a general hospital ward for treatment with intravenous antibiotics. The other carriers of deleterious heterozygous *OTULIN* variants in these ORAS family kindreds (G.I.1, G.I.2, G.II.3, H.I.1, I.I.2, I.II.3, K.I.1, K.I.2, K.II.3 (*29-32*)) reported no particular phenotype.

The clinical phenotypes of the individuals with 5p- syndrome were self-reported. Patient P.II.5 (a 28-year-old North-American man carrying a deletion with a breakpoint centromeric to *OTULIN*) reported pneumonia and recurrent skin and soft tissue infections. During his first year of his life, the patient was admitted to the ICU for hemodynamic instability of unknown etiology. At the age of 7 years and following a bilateral femoral osteotomy, the patient was admitted to the ICU for respiratory insufficiency due to pneumonia. The pneumonia was progressive, and the patient was placed on extracorporeal membrane oxygenation. Cultures, taken under treatment with broad-spectrum antibiotics, remained negative. At the age of 10 years, the patient suffered from an episode of unilateral mastitis requiring treatment with oral antibiotics. MRSA was isolated from cultures. Superficial MRSA-infections recurred in the arm pits and groins until the age of 12 years. At the age of 11 years, the patient was hospitalized for cellulitis of the wrist requiring treatment with intravenous antibiotics. During this episode, cultures taken under treatment with antibiotics remained negative. Patient Q.II.4 (a 28-year-old South-East-Asian woman man carrying a deletion with a breakpoint centromeric to *OTULIN*) reported pneumonia. At the age of three months, she was admitted for respiratory insufficiency of unknown etiology. The patient subsequently suffered from multiple episodes of community-acquired pneumonia requiring treatment with oral antibiotics. On several occasions, her clinical condition required admission to a regular ward for observation. For as far as documented, sputum cultures had remained negative. The other individuals with 5p- syndrome carrying a deletion with a breakpoint centromeric to *OTULIN* (L.II.3, a 1-year-old French boy; M.II.3, a 1-year-old French boy; N.II.4, a 2-year-old girl of mixed ancestry; O.II.3, a 21-year-old North-American woman) and those carrying a deletion with a breakpoint telomeric *OTULIN* (R.II.4, a 2-year-old North-American girl; R.I.2, a 40-year-old North-American man) reported no particular phenotype.

Supplementary Materials and Methods

Whole-exome sequencing

An adaptor-ligated library was prepared with the TruSeq DNA Sample Prep Kit (Illumina). Exome capture was performed with the SureSelect Human All Exon V5 Kit (Agilent Technologies). Paired-end sequencing was performed on the HiSeq 2500 System (Illumina) generating 100-base reads. Sequences were aligned with the GRCh37 build of the human genome reference sequence with the Burrows-Wheeler Aligner (*110*). Downstream processing and variant calling were performed with the Genome Analysis Toolkit (*113*), SAMtools (*111*), and Picard tools (http://broadinstitute.github.io/picard/). Variants were subsequently annotated with in-house annotation software. We validated genomic variants in patients and their relatives by amplifying 200 to 300 bp regions encompassing the mutation from gDNA samples with different sets of site-specific primers. The amplicons were then sequenced with BigDye Terminator technology on an ABI 3730 DNA sequencer. SnapGene (Version 3.1.4) was used for sequence analysis. Breakpoints were determined by low-coverage whole-genome sequencing in individuals with 5p- syndrome, as described elsewhere (*101*).

Generation and culture of induced pluripotent stem cells

Induced pluripotent stem cells (iPSCs) were generated from $CD34^+$ cells (from patient C.III.5) or from primary fibroblasts (from patient A.I.1) with the CytoTune-iPS 2.0 Sendai Reprogramming Kit (Invitrogen). The manufacturer's feeder-dependent protocol was followed to reprogram $CD34^+$ cells or primary fibroblasts, with the following exceptions: patient $CD34^+$ cells were isolated from cryopreserved PBMCs with the human CD34 MicroBead Kit (Miltenyi Biotec), and 50,000 $CD34^+$ cells or 50,000 primary fibroblasts were transduced with the standard kit MOIs. CD34+ cells derived iPSCs from a healthy control and a patient with X-linked chronic granulomatous disease (X-CGD) were kindly provided by Nico Lachmann and Alex Schambach, respectively (Hannover, Germany) (*106, 122*). iPSCs were cultured on irradiated CF1 mouse embryonic fibroblasts (Thermo Fisher Scientific) in iPSC medium (knockout DMEM containing 20% knockout serum replacement, 0.1 mM β-mercaptoethanol, 1 mM L-glutamine, 1% penicillin/streptomycin, and 1% nonessential amino acids; all from Thermo Fisher Scientific) supplemented with 20 ng/mL basic fibroblast growth factor (bFGF; PeproTech). iPSCs were passaged every five to seven days, depending on colony size, with collagenase IV (Thermo Fisher Scientific). Pluripotency was confirmed by an embryonic stem cell-like colony morphology, expression of the pluripotency markers TRA1-60 and SSEA-4 and the expression of alkaline phosphatase. All cell lines were karyotyped.

Hematopoietic differentiation of iPSCs into macrophages

iPSC-derived macrophages were generated with an embryoid body (EB)-based hematopoietic differentiation protocol (*122*). In brief, iPSC colonies were disrupted with collagenase IV, and EB formation was induced by culture in iPSC medium supplemented with 10 μM ROCK Inhibitor (Tocris) in six-well suspension plates incubated for five days on an orbital shaker operating at 90 rpm, at 37°C, under an atmosphere containing 5% CO_2. EBs were collected manually, and myeloid cell complex formation was initiated in the presence of APEL2 medium (Stem Cell Technologies) supplemented with 1% penicillin/streptomycin, 50 ng/mL macrophage colony-stimulating factor (M-CSF; PeproTech) and 25 ng/mL interleukin-3 (PeproTech). After 14 days of incubation, macrophages were harvested once weekly from the supernatant and passed through a filter with a 100 μM mesh. For further maturation, the harvested cells were cultured in

RPMI 1640 (Thermo Fisher Scientific) supplemented with 10% HI-FBS and 50 ng/mL M-CSF for 7-10 days. Successful differentiation was confirmed by the surface expression of CD11b, CD14 and CD163.

Phagocytosis assays and H_2O_2 production by iPSC-derived macrophages

For the assessment of phagocytosis, iPSC-derived macrophages were used to seed a 48-well plate containing RPMI 1640 supplemented with 10% HI-FBS. After 24 hours, the medium was replaced with live cell imaging solution (Thermo Fisher Scientific) and the cells were incubated for 3 hours with fluorescently labeled *S. aureus* pHrodo red bioparticles (Thermo Fisher Scientific) at 37°C, under an atmosphere containing 5% CO_2. The cells were then washed thoroughly in live cell imaging solution and bioparticle uptake was measured with a Gallios flow cytometer (Beckman Coulter). NADPH oxidase activity in iPSC-derived macrophages was assessed by measuring the extracellular release of H_2O_2 with the Amplex Red Hydrogen Peroxide Kit (Thermo Fisher Scientific). In brief, cells were stimulated with 400 ng/mL phorbol 12-myristate 13-acetate (PMA; Merck), and H_2O_2 release was quantified with a Victor X4 plate reader (PerkinElmer).

Transcriptional analyses in primary dermal fibroblasts and PBMCs

Primary dermal fibroblasts were synchronized by incubation in DMEM supplemented with 1% HI-FBS for 24 hours before stimulation. RNA was extracted at steady state and after 6 hours of stimulation with 20 ng/mL TNF (R&D Systems), with the RNeasyPlus Micro Kit (QIAGEN), according to the manufacturer's instructions. Freshly thawed PBMCs were left unstimulated or were stimulated with 20 ng/mL TNF (R&D Systems), 10 ng/mL IL-1β (R&D Systems), HKSA (MOI: 10; InvivoGen)), or 1 ng/mL LPS (InvivoGen) for 6 hours. Total RNA was extracted from PBMCs with the Zymo Research RNA MicroPrep kit. RNA sequencing analysis was performed with TruSeq Stranded mRNA (Illumina) and standard poly(A)-based methods for library preparation. Paired-end sequencing, with a read length of 50 bp and 30-50 million reads per sample, was performed with the NovaSeq S1 system (Illumina). We used STAR version 2.7.2b (*105*) to align reads to the GRCh37.p13 genome. Reads were counted with HTseq (*100*), with the parameter –nonunique=all and ensembl release 103 as the gene model. DESeq2 version 1.28.1 (*112*) was used for differential expression analyses. Genes with low levels of expression (fewer than two samples with at least 1 count per million reads) were removed. Differential expression was assessed with a multi-linear analysis, with mutation annotation as a factor. Gene set enrichment analyses were performed on Hallmark gene sets with GSEA software (version 4.1.0), with ranking of the $\log_2$ fold-change in expression relative to the controls as the input. The expression of *OTULIN*, *CAV1*, *CAV2*, and *GSN* in resting and TNF-stimulated cells were represented relative to the mean values for conditional controls and merged per gene for each individual.

Single-cell RNA sequencing on PBMCs

Single-cell RNA sequencing was performed on PBMCs obtained from four patients with OTULIN haploinsufficiency (three of whom carried heterozygous mutations of *OTULIN*, plus one 5p- syndrome patient) and four healthy controls. The samples were prepared as described elsewhere (*96*). Cells were resuspended at a density of 1000 cells/μL in PBS + 0.04% BSA and loaded onto a 10X Genomics Chromium chip for single-cell capture. Reverse transcription and library preparation were performed with Chromium Single Cell 3′ Reagent Kits (v3) in accordance

with the manufacturer's guidelines, and library quality was assessed with a Bioanalyzer DNA chip. Each library was sequenced on two lanes of a NovaSeq S2 sequencer in a 28x94x8 paired-end configuration. We aligned the single-cell RNA-seq data and generated count matrices with the cellranger count function of cellranger 3.1.0 (*120*), with the default parameters. The gene count data were further analyzed as previously described (*123*), but with minor modifications. Briefly, low-quality cells were excluded by manual thresholding based on the number of features detected and the percentage of mitochondrial genes. Graph-based clustering was performed after batch-correction with *Harmony* (*121*). Clusters were identified manually from the patterns of expression for lineage marker genes. Two TotalSeq datasets obtained from the 10X Genomics website were also included in the analysis, to facilitate cluster identification. Clusters corresponding to platelets and erythrocytes were excluded from subsequent analyses. Cluster-wise pseudobulk differential expression analysis was conducted with NOISeq (*124*). The expression patterns of representative DE genes were visualized via uniform manifold approximation and projection (UMAP). All analyses were conducted in R v.4 (https://www.r-project.org/).

Immunofluorescence deubiquitination and competition assays

For immunofluorescence deubiquitination assays, cells were incubated for 10 minutes at room temperature in deubiquitinase buffer containing 50 mM Tris pH 7.5, 50 mM NaCl, 2 mM DTT, 5 mM $MgCl_2$ and 0.1% BSA. Cells were then treated for 45 minutes at 37°C with 1 μM OTULIN (WT or C129S) or 6 μM vOTU in deubiquitinase buffer. Mock-treated cells were incubated with deubiquitinase buffer alone. After four washes with PBS, cells were incubated with 1% BSA in PBS for 30 minutes. An indirect immunofluorescence assay was then performed with the anti-M1-Ub antibody, as described in the Materials and Methods. The recombinant vOTU deubiquitinase (OTU domain of the Crimean Congo hemorrhagic fever virus L1 protein) was produced as a GST fusion protein from a bacterial expression vector encoding GST-vOTU CCHFV-L (1–169). Recombinant OTULIN His-tagged fusion proteins were produced from bacterial expression vectors encoding OTULIN-WT and OTULIN-C129A (wild-type and the catalytic-dead mutant C129A) (*30*). For immunofluorescence competition assays with free polyubiquitin chains, incubation with the primary antibody was performed in the presence of 20 μg/mL tetra-M1 or K63-Ub chains (R&D Systems).

Global quantitative proteomics in primary dermal fibroblasts with isobaric labels

PDFs were synchronized by incubation in DMEM containing 1% HI-FBS for 24 hours and were then harvested by trypsin treatment. Cell pellets were lysed in WCL buffer C (Table S4), with sonication to clear the supernatants. Proteins were precipitated from the lysate in chloroform/water/methanol (*118*) and pellets were dissolved in 8 M urea, 50 mM triethylammonium bicarbonate (TEAB). Reduction and alkylation were performed with dithiothreitol and iodoacetamide, respectively. Proteins were digested with LysC (2% w/w overnight at room temperature) and trypsin (2% w/w for 6 hours at room temperature). We then withdrew 110 μg peptides from each sample for purification on Oasis HLB cartridges (Waters) according to the manufacturer's instructions. Eluates were dried by vacuum centrifugation and dissolved in 100 mM TEAB. Samples were divided into two TMT-labeling groups. We removed a small proportion from each sample for combination to form a normalizer sample for comparison between the two TMT groups. The purified peptides were labeled with 400 μg TMT-10 plex reagent dissolved in anhydrous acetonitrile and the normalizer sample was labeled with the 11th plex reagent. Labeling was allowed to proceed for 1 hour and was quenched by adding 5%

hydroxylamine. We collected a small aliquot from each sample. These aliquots were combined according to their labeling group and analyzed by LC-MS/MS to assess labeling efficiency and stoichiometry. Samples were pooled and amounts were adjusted according to the labeling assessment. Peptides were fractionated by basic-pH reversed-phase HPLC with a Dionex 3000 Ultimate loading pump equipped with a 2.1*150 mm 3.5 µm Xbridge C18 column (Waters). Solvent A consisted of 10 mM ammonium hydroxide (Sigma-Aldrich) in water, pH 10, and solvent B consisted of 10 mM ammonium hydroxide, 90% acetonitrile (ACN) in water, pH 10. Peptides were fractionated across a 60-minute gradient and the collected fractions were concatenated to yield a total of 24 fractions. For the next step, solvent A was 0.1% formic acid in water and solvent B was 0.1% formic acid, 80% acetonitrile (ACN) in water. All LC-MS solvents were of HPLC grade and were purchased from Sigma. Peptide fractions were separated by HPLC on a Dionex 3000 Ultimate equipped with a NCS3500RS nano- and microflow pump (Dionex). Peptides were loaded onto a 100 µm x 20 mm Acclaim PepMap C18 trap column (Thermo Scientific), with elution at a rate of 3 µL/min. Separation was achieved with a 75 µm x 120 mm pulled emitter nanocolumn (Nikkyo Technos). The proportion of solvent B increased from 1% to 5 % over 6 minutes, then to 34% over 70 minutes, and then increased sharply, over a period of one minute, to 90%, a proportion at which it was maintained for 12 minutes. Peptides were analyzed with a Q-Exactive HF mass spectrometer (Thermo Fisher Scientific). Data were recorded in positive mode with Top 20 DDA acquisition. Resolution was set to 60,000 for both MS1 and MS2. AGC targets of 3e6 (MS1) and 2e5 (MS2) were applied. Raw data were analyzed with MaxQuant version 1.6.6.0 (*102*). Spectra were used to query the human proteome (downloaded from uniprot.org on February 12, 2019, 73931 sequences) with a false discovery rate (FDR) of 1%. Protein quantification results were processed further with the Perseus software platform (*115*). Values were $\log_2$-transformed and samples were normalized against both the median, to compensate for variation of the amounts within runs, and the normalizer channel, for comparisons between runs. Significance was assessed in an FDR-corrected *t*-test. Gene set enrichment analyses were performed on Hallmark gene sets with GSEA software (version 4.1.0), with $\log_2$-fold changes in expression relative to the controls as the input. Highest-confidence *in silico* analyses of functional and physical protein-protein interactions were performed with the STRING database (version 11.5).

Fractions found to contain OTULIN peptides were analyzed along with the corresponding fraction from the other run, by a parallel reaction monitoring (PRM) method, allowing quantification of the same peptides across both runs. The masses of four OTULIN peptides identified in large-scale analysis (AIELYNDK, DTSNDPGQLLR, EAAATAR and VRGDNYCALR) were added to an inclusion list and analyzed with a Fusion Lumos Tribrid mass spectrometer (Thermo Scientific) using both PRM and DDA within the same cycle. Separation was achieved with an Easy nLC-1200 (Thermo Fisher Scientific) system equipped with a 250 µm x 0.75 mm Easyspray column (Thermo Fisher Scientific). Data were processed with Proteome Discoverer v.2.4 (Thermo Fisher Scientific), with the same database settings as described above. Signals from OTULIN peptides were first normalized against the median for all identified proteins within each channel, and then against the normalizer group within each TMT-group.

Targeted proteomic analyses on GlyGly-tagged peptides in purified caveolin-1

High-MW and low-MW bands obtained by gel electrophoresis of the immunopurified caveolin-1, corresponding to caveolin-1, as demonstrated by western blotting, were excised from the gel with a scalpel. The gel fragments were destained, reduced, alkylated and digested, as

described elsewhere (*128*), except that acrylamide (incubation with 55 mM in 100 mM ammonium bicarbonate for 30 minutes at room temperature in the dark) was used for alkylation instead of iodoacetamide. Peptides were obtained through three rounds of extraction in 70% acetonitrile, 5% formic acid in water, and were dried by vacuum centrifugation. Eluates from in-solution immunopurification were mixed with ice-cold acetone and incubated overnight at -20°C. The resulting pellets were dissolved in 8 M urea, 50 mM TEAB and 10 mM DTT. The reduction reaction was allowed to proceed for 1 hour at room temperature. Cysteines were alkylated by incubation with 20 mM acrylamide for 30 minutes at room temperature in the dark, and DTT was then added to quench the reaction. Peptides were purified with C18 micropurification tips produced in-house and dried by vacuum centrifugation. Samples were analyzed by two rounds of mass spectrometry on a Q-Exactive HF mass spectrometer operating in combined DDA/PRM mode, making it possible both to identify unknown proteins and to perform targeted quantification for several ubiquitin- and caveolin-derived tryptic peptides with GlyGly tags [+114 Da]. LC instrumentation and solvent conditions were identical to those described above, except for the use of gradients of 50- or 90-minutes duration. The targeted peptides for caveolin-1 were (residues modified with a GlyGly tag underlined; residues alkylated by acrylamide in italics and underlined): SGGKYVDSEGHLYTVPIR; YVDSEGHLYTVPIREQGNIYKPNNK; EQGNIYKPNNK; EQGNIYKPNNKAMADELSEK; EQGNIYKPNNKAMADELSEK; AMADELSEKQVYDAHTK; QVYDAHTKEIDLVNR; DPKHLNDDVVK; ASFTTFTVTKYWFYR; VYSIYVHTV*C*DPLFEAVGKIFSNVR; INLQKEI. The targeted peptides for ubiquitin were (residues modified with a GlyGly tag underlined): MQIFVK; ESTLHLVLR; MQIFVKTLTGK; TLTGKTITLEVEPSDTIENVK; TLTGKTITLEVEPSDTIENVKAK; TITLEVEPSDTIENVKAK; TITLEVEPSDTIENVKAKIQDK; AKIQDK; IQDKEGIPPDQQR; LIFAGKQLEDGR; TLSDYNIQKESTLHLVLR. Spectra were used as queries against the human proteome, with an FDR of 1%, with the MASCOT search engine and Proteome Discoverer v. 1.4 (Thermo Fisher Scientific). Proteins for which at least two peptide species were identified, and for which the abundance in caveolin-1 in-solution immunopurification eluates was at least 1000 times higher than that in isotype control eluates, were retained for comparisons between the patient and healthy controls. The peak areas for the targeted peptides were extracted with Skyline v. 20.2.0.343 (*127*). All matching MS2 ions were summed and used for quantification without smoothing. Peak areas were normalized against the top3 signal for caveolin-1 for each sample.

M1-Ub quantification and M1-Ub-bound peptide identification

TUBE protein samples were run on a 12% acrylamide SDS-PAGE gel with a short migration and were stained with silver nitrate. The band corresponding to the TUBE protein was removed to prevent saturation effects. The rest of the sample was treated as a single band and was subjected to in-gel digestion. The gel pieces were sliced into 1 mm^3 cubes and destained by washing twice with a freshly prepared solution containing 15 mM $K_3[Fe(CN)_6]$ and 50 mM $Na_2S_2O_3$. The proteins were then reduced with 10 mM DTT in 50 mM NH_4HCO_3 for 30 minutes at 56°C and alkylated with 50 mM N Ethylmaleimide (NEM) in PBS for 30 minutes at room temperature in the dark. Proteins were digested by overnight incubation with 300 ng trypsin per sample, at 37°C, and the tryptic peptides were collected. The gel pieces were washed twice in 60 % acetonitrile (ACN)/0.1 % trifluoroacetic acid for 10 min in an ultrasonic bath. The extracted peptides were dried in a rapid vacuum dryer and resuspended in 20 µL 2% ACN/0.1% formic acid (FA). Peptides were diluted with 50 µL 0.5% acetic acid (HAc) and desalted on stage tips with three layers of Empore SPE Disks C18 (Sigma Aldrich), with the DigestProMSi robot (Intavis).

They were washed with 0.5% HAc and eluted with 80% ACN/0.5% HAc, dried in a rapid vacuum dryer and resuspended in 20 µL 2% ACN/0.1% FA. All samples were stored at - 20°C until MS analysis. The synthetic heavy M1 ubiquitin peptide GGMQIFV[$^{13}C_5{}^{15}N_1$]K was purchased from Sigma (The Woodlands, TX, USA). This AQUA peptide was dissolved at a concentration of 100 fmol/µL in 2% ACN/0.1% FA and purity was monitored by ESI-MS and LC-MS/MS on a timsTOF Pro (Bruker), by trapped ion mobility spectrometry in DDA PASEF mode (Parallel Accumulation–Serial Fragmentation), as described below. Both the oxidized and non-oxidized forms of the peptide were detected. The oxidized peptide chromatogram contained a double peak, as previously observed for some ubiquitin peptides (*104*). Each sample was incubated overnight with 0.05% H_2O_2 to induce complete methionine oxidation. To construct a calibration curve, a mix of total protein digests from two patients (Mix 1) was spiked with the M1 AQUA peptide at concentrations ranging from 3 amol/µL to 500 fmol/µL. To adjust the slope of the calibration curve for TUBE-enriched protein extracts, a second mix was prepared with equal amounts of each TUBE-enriched sample (Mix2). Next, Mix 2 was spiked with three different dilutions of the M1 AQUA peptide: 125 amol/µL, 625 amol/µL and 3.125 fmol/µL. For endogenous M1 peptide quantification, the M1 AQUA peptide was used to spike each individual sample at 125 amol/µL as an internal standard. Peptide mixtures were analyzed with a nanoElute UHPLC (Bruker) coupled to a timsTOF Pro mass spectrometer (Bruker). Peptides were separated on an RP-C18 Odyssey (25 cm, 75 µm i.d., 120 Å, 1.6 µm particle size, IonOpticks) analytical column at a flow rate of 400 nL/min, at 50°C, with mobile phases A (FA 0.1%) and B (ACN 99.9%/FA 0.1%). The elution gradient was as follows: 3% to 15 % B in 17 min then 17% to 23% B in 7 min, 23% to 32% B in 5 min and 32% to 85% in 3 min. MS acquisition was performed in DDA mode with PASEF as described elsewhere (*125*). Raw data were processed with Data Analysis 5.1 (Bruker) to generate extracted ion chromatograms of the peaks at 448.2390 ± 0.005 m/z for the endogenous M1-Ub peptide and 451.24 ± 0.005 m/z for the heavy AQUA M1 peptide. Each point on the calibration curve for the Mix1 sample resulted from three injections. Peak intensities were extracted manually for each sample. A standard curve was generated from the log-transformed mean area under the curve (AUC) values versus M1-Ub AQUA peptide abundance. This calibration curve was used to determine the lower limit of detection (LLOD) and the lower limit of quantification (LLOQ). The LLOD was determined as the [(mean AUC (Blank) + 3 x standard deviation (Blank)) /slope] and the LLOQ was determined as the [mean AUC (Blank) + 10 x standard deviation (Blank)) /slope] where the blank corresponds to the sample mix with no AQUA peptide. The LLOD was 130 amol, and the LLOQ was 434 amol. The Mix2 sample was used to validate the linearity of M1 AQUA peptide detection in the selected range in TUBE-enriched protein extracts and to adjust the slope of the calibration curve. All R^2 values were > 0.99. The abundance of the endogenous M1-Ub peptide was calculated from the AUC of the AQUA M1-Ub peptide used to spike each sample.

For protein identification, X!tandem (version 2017.2.1.4) was used with the X!tandem pipeline (version XTPCPP 0.4.3) and the Human UniProt database (version 20201007, 20614 entries) as a reference (*126*). The applied permissive parameters were as follows: i) 3 missed cleavages; ii) 25 ppm for MS and MS^2 tolerance; iii) fixed modification: Cys-NEM and Met-Ox; and iv) variable modifications: Lys-KK and acetyl N-term. Proteins were identified with at least 1 unique peptide and when both the peptides and corresponding proteins had an FDR < 1%. For selection of peptides potentially bound to M1-Ub, the following criteria were used: i) detection of a peptide in >1 individual, ii) for which the number of spectra detected was >1 in at least one individual, iii) combined with the absence of spectra in the HOIL1-deficient patient. Highest-

confidence *in silico* analyses of functional and physical protein-protein interactions were subsequently performed with the STRING database (version 11.5).

Bacterial culture supernatant and recombinant toxins

Staphylococcus aureus strain USA300 clone LAC, an epidemic clone of methicillin-resistant *S. aureus* (*103, 114*), was grown in tryptic soy broth. Crude overnight cultures were centrifuged, and the supernatant was cleared by passage through a filter with 0.2 μm pores. α-toxin-Cys was produced and labeled with AF647 as described elsewhere (*117*). α-toxin was cloned, expressed, and purified from *S. aureus* as previously described (*109*). Aerolysin from *Aeromonas hydrophilia* ATCC 7966 (PubMed gene ID 4490401) and streptolysin O (SLO) from *Streptococcus pyogenes* GAS M1 (PubMed gene ID 900490) were ordered as gBlocks from Integrated DNA Technologies. Aerolysin was cloned as proaerolysin with a C-terminal 6-histidine tag through restriction digestion with NcoI and XhoI and ligation into the pET28a expression vector (*119*). SLO was cloned with an N-terminal 6-histidine tag through restriction digestion with NheI and XhoI and ligation into pET28a (*116*). The resulting plasmids were used to transform *E. coli* DH5α competent cells, with transformants selected on the basis of kanamycin resistance (50 μg/mL), and confirmed by colony PCR and Sanger sequencing (Genewiz). The purified plasmids were then used to transform the *E. coli* T7 Express lysY/lq strain (New England Biolabs). The expression strains were grown overnight at 37°C, with shaking at 180 rpm, in Luria-Bertani (LB) broth supplemented with kanamycin (50 μg/mL). The following day, the overnight cultures were subcultured at a 1:20 dilution in LB supplemented with kanamycin (50 μg/mL) and were grown to an OD_{600} of 0.5-0.6 (~1.5 hours) at 37°C, with shaking at 180 rpm. The expression of proaerolysin and SLO was induced by incubation with 1 mM IPTG in LB broth supplemented with kanamycin (50 μg/mL) for 16 hours at 16°C, with shaking at 220 rpm. The bacteria were then pelleted by centrifugation at 10,000 rpm, for 15 min at 4°C then the bacterial pellets were frozen at -20°C. The bacterial pellets were thawed on ice and resuspended in lysis buffer (50 mM Na_2HPO_4, 500 mM NaCl, 10 mM imidazole, 1X protease inhibitor (Thermo Fisher Scientific), 140 U/mL Benozonase, and 2 mM $MgCl_2$). The bacterial cells were lysed by sonication for 2 minutes on ice at 65% amplitude, and were then treated with BugBuster for 30 min at room temperature, with shaking, before being placed on ice for 30 min. The lysates were centrifuged at 10,000 rpm, for 30 minutes at 4°C and the supernatant (cleared lysate) was filtered through a filter with 0.22 μm pores (Corning). The cleared lysate was then diluted 1:1 into 50 mM Na_2HPO_4 with 10 mM imidazole, 1X protease inhibitor, and 10% glycerol and incubated with equilibrated nitrilotriacetic acid (Ni-NTA) agarose resin (Qiagen) for 1 hour at 4°C, with shaking. The cleared lysate-Ni-NTA resin mixture was then applied to a glass column by gravity filtration, and the ni-NTA-bound proteins were washed with 20 mM Na_2HPO_4, 250 mM NaCl with 10 mM imidazole, followed by 20 mM Na_2HPO_4, 250 mM NaCl with 25 mM imidazole. The ni-NTA-bound proteins were then eluted in 500 mM imidazole. The purified proteins were dialyzed against 20 mM Na_2HPO_4, 200 mM NaCl plus 10% glycerol and passed through a filter with 0.22 μm pores before storage at −80°C. Protein concentration was determined on the basis of absorbance at 280 nm with a Nanodrop spectrometer (Thermo Fisher Scientific) and Beer-Lambert's equation. We subjected 1 μg of the purified proteins to SDS-PAGE at 90 V for 120 minutes, and the gel was then stained with Coomassie Brilliant Blue to confirm purity. The cytotoxic activity of purified aerolysin and SLO was confirmed with primary human neutrophils. Furin cleavage of proaerolysin was not required for aerolysin cytotoxicity in primary human neutrophils.

Mice

All experiments involving animals were reviewed and approved by the Institutional Animal Care and Use Committee of New York University and were performed according to guidelines from the National Institutes of Health (NIH), the Animal Welfare Act, and the U.S. Federal Law. C57BL/6 *Otulin*^{flox} mice were provided by David Komander and Rune B. Damgaard (MRC Laboratory of Molecular Biology, Cambridge, UK) (*30*), re-derived and bred in-house at NYU Grossman School of Medicine. *Otulin*^{flox} mice were crossed with *cre*^{ERT2} (#008463) mice purchased from The Jackson Laboratory. *Cre*^{ERT2}-*Otulin*^{flox} mice were treated with tamoxifen (#T5648-1G) by i.p. injection on three consecutive days to ablate *Otulin,* as previously described (*30*). *Otulin* ablation was confirmed by PCR. Mice were maintained under specific pathogen-free conditions, and age-matched mice were used for experiments at the age of 8-10 weeks.

Anti-α-toxin immunoglobulins

We assessed the capacity of plasma to neutralize microbial toxins as described elsewhere (*61*). Briefly, rabbit erythrocytes (Innovative Research) were washed and their density was adjusted to 1.5 x 10^8 cells/mL in PBS supplemented with 0.5% BSA. Toxins were incubated for 30 minutes at room temperature with diluted plasma. Rabbit erythrocytes were added and the mixture was incubated for 1 hour at 37°C, under an atmosphere containing 5% CO_2, with shaking at 600 rpm. The supernatant was cleared by brief centrifugation and its OD_{415} was measured on a spectrophotometer. Neutralizing capacity is expressed relative to a control sample not treated with toxin. Anti-α-toxin immunoglobulins were quantified by ELISA; as described elsewhere (*61*). Briefly, a microtiter plate was coated with 3 μg/mL α-toxin in carbonate/bicarbonate buffer and incubated at 4°C overnight. The plate was washed and blocked, and plasma dilutions were applied. The plate was then incubated for 1 hour at room temperature. It was washed, and peroxidase-conjugated anti-human-IgG, anti-human-IgA, or anti-human-IgM (all EMD Millipore) was applied. The plate was then incubated for another hour at room temperature. The plate was thoroughly washed, 3,3′,5,5′-tetramethylbenzidine substrate was added and the plate was incubated for 10 minutes at room temperature. The reaction was stopped by adding sulfuric acid, and the plate was read on a spectrophotometer at 450 nm with correction at 540 nm.

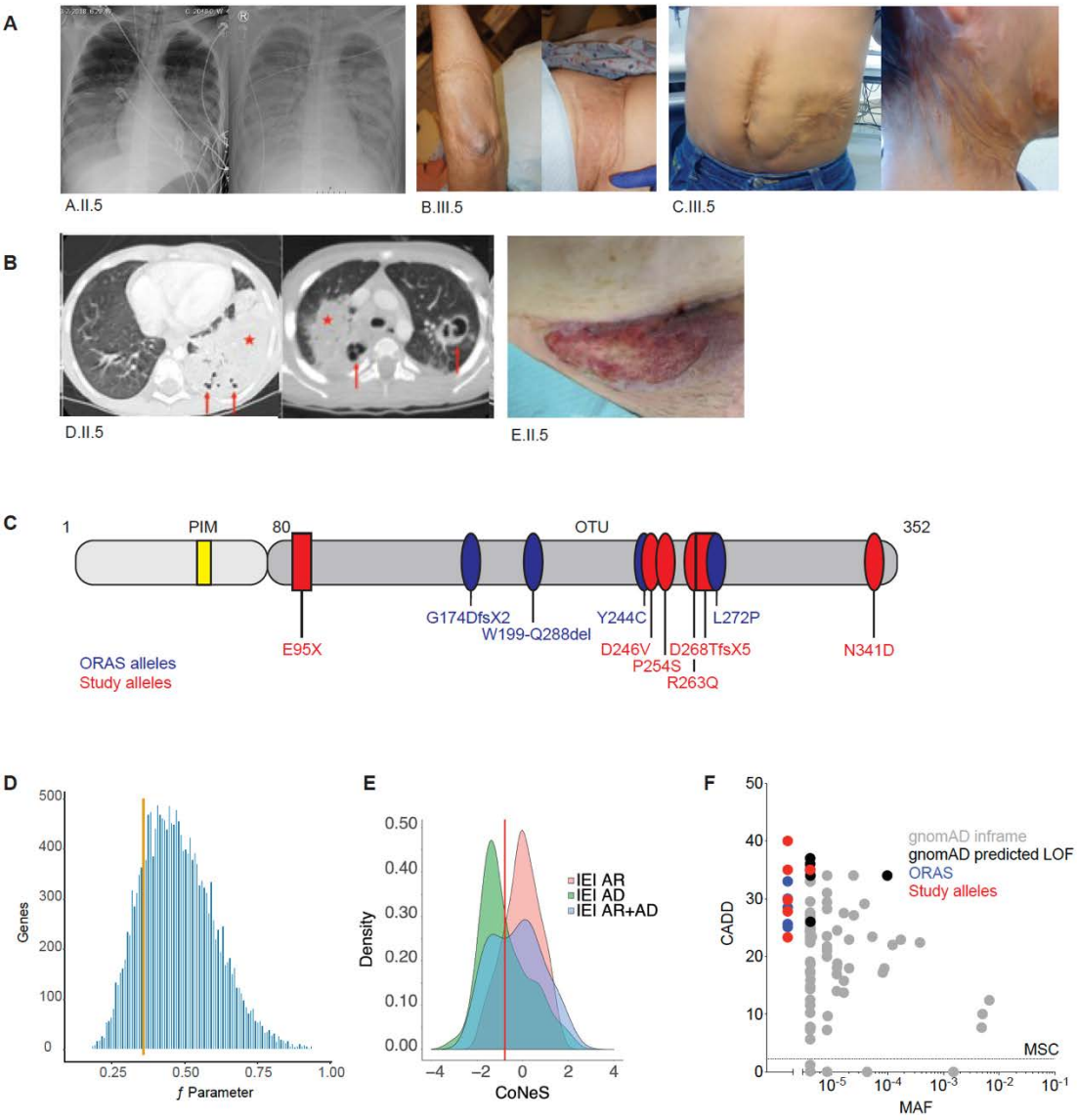


Figure S1 (Page 1/2)

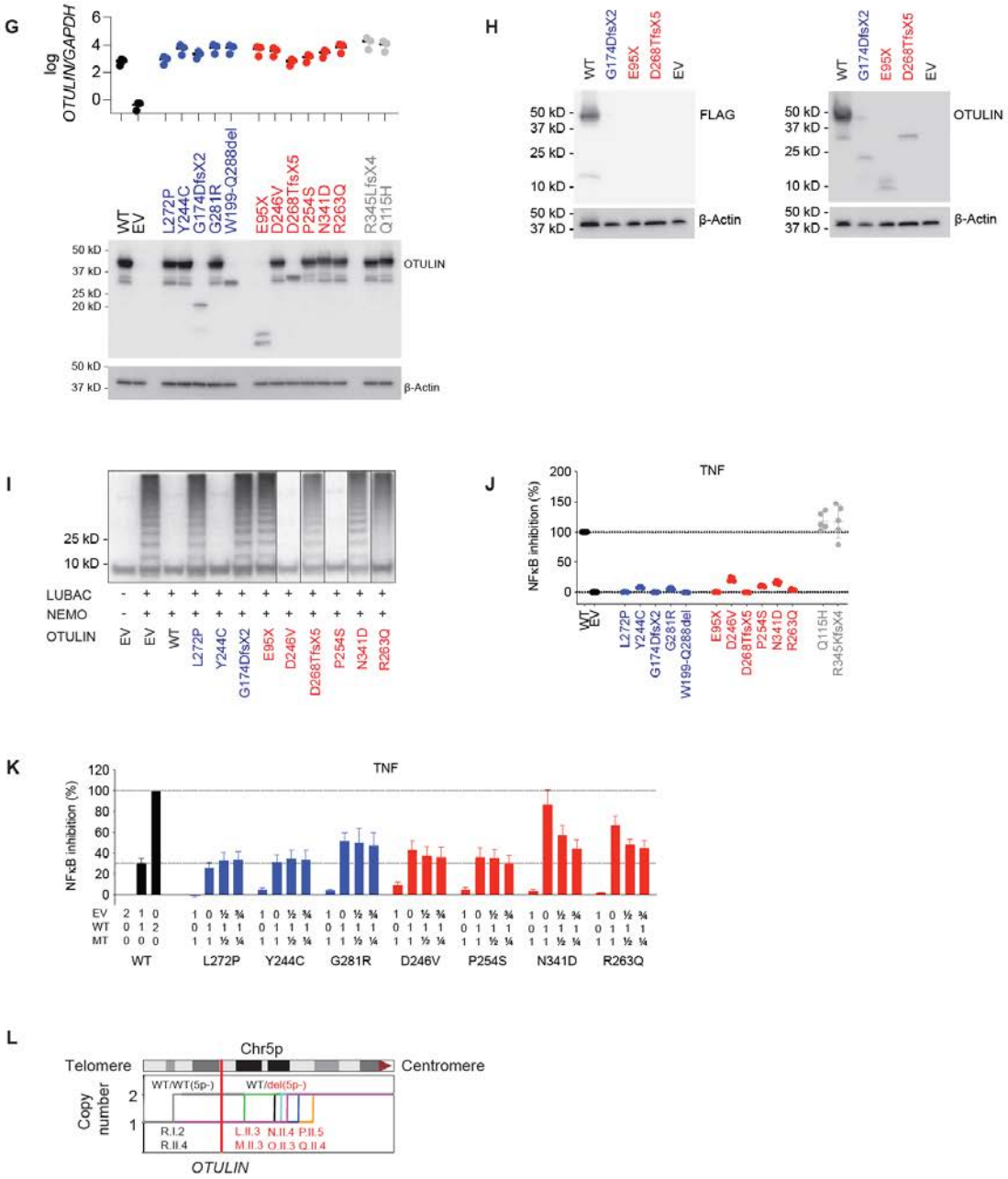


Figure S1 (Page 2/2)

Figure S1. OTULIN haploinsufficiency and its molecular characterization. Related to Figure 1. (A) Clinical images of necrotic sequelae triggered by *S. aureus* infection in the patients. Bilateral pneumonia with progressive consolidations and alveolar edema on chest X-rays of patient A.II.5 at the day of admission (day 0; left image) and at the day before demise (day 4; right image). Areas of grafted skin on the right arm (left image) and waist (right image) following recurrent episodes of necrotizing cellulitis in patient B.III.5. Postsurgical scars of the abdominal wall (left image) and skin grafts in the neck (right image) following abscess formation and necrotizing fasciitis, respectively, in patient C.III.5. **(B)** Clinical images of necrotic sequelae triggered by other etiologies. Computed tomography (CT) images of different episodes of necrotizing pneumonia in patient D.II.5 (stars indicate consolidations; arrows indicate necrotic cavities). Necrotic lesion of the skin surrounding a post-surgical wound in patient E.II.5. **(C)** Schematic overview of the OTULIN variants found in the patients. PIM: PUB-interacting motif; OTU: ovarian tumor deubiquitinase domain. **(D)** The *OTULIN* f-parameter indicates negative selection pressure. **(E)** The *OTULIN* consensus score for negative selection (CoNeS) is in the range of those for inborn errors of immunity with both autosomal dominant (AD) and autosomal recessive (AR) patterns of inheritance. **(F)** Population genetics of *OTULIN*, based on the minor allele frequencies (MAF) reported in the gnomAD database plotted against combined annotation-dependent depletion (CADD) scores. LOF: loss of function. **(G)** Expression of *OTULIN* and its gene product in transiently transfected HEK293T cells, as detected by RT-qPCR (N=4-5, mean ±SD) and western blotting. **(H**) Expression of truncated variants with a C-terminal in-frame FLAG-tag. **(I)** Linear deubiquitinase capacity of OTULIN variants in HEK293T cells transiently cotransfected with LUBAC components and NEMO. The lanes were reorganized post-acquisition to facilitate visual comparison with other figure panels. **(J)** NF-κB inhibitory capacity of OTULIN variants assessed with a luciferase reporter system in transiently transfected HEK293T cells stimulated with TNF (N=4-5, mean ±SD). **(K)** NF-κB inhibitory capacity of OTULIN variants, as assessed with a luciferase reporter system in HEK293T cells transiently cotransfected with wild-type OTULIN and stimulated with TNF (N=3-4, mean ±SD). Numbers represent ratios of empty vector (EV) and *OTULIN*-encoding vectors. **(L)** Breakpoints in study participants with 5p- syndrome, as determined by low-coverage whole-genome sequencing.

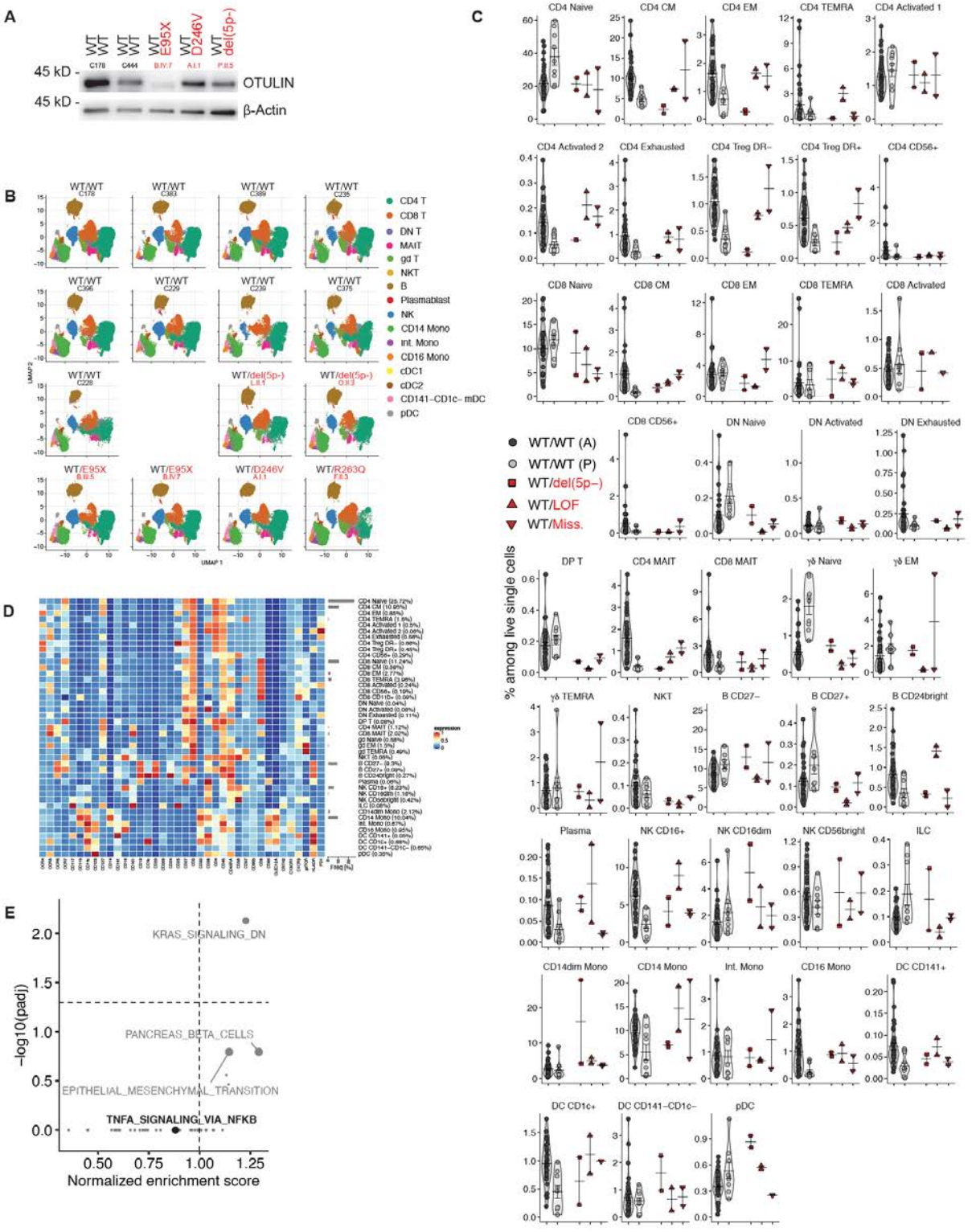


Figure S2 (Page 1/2)

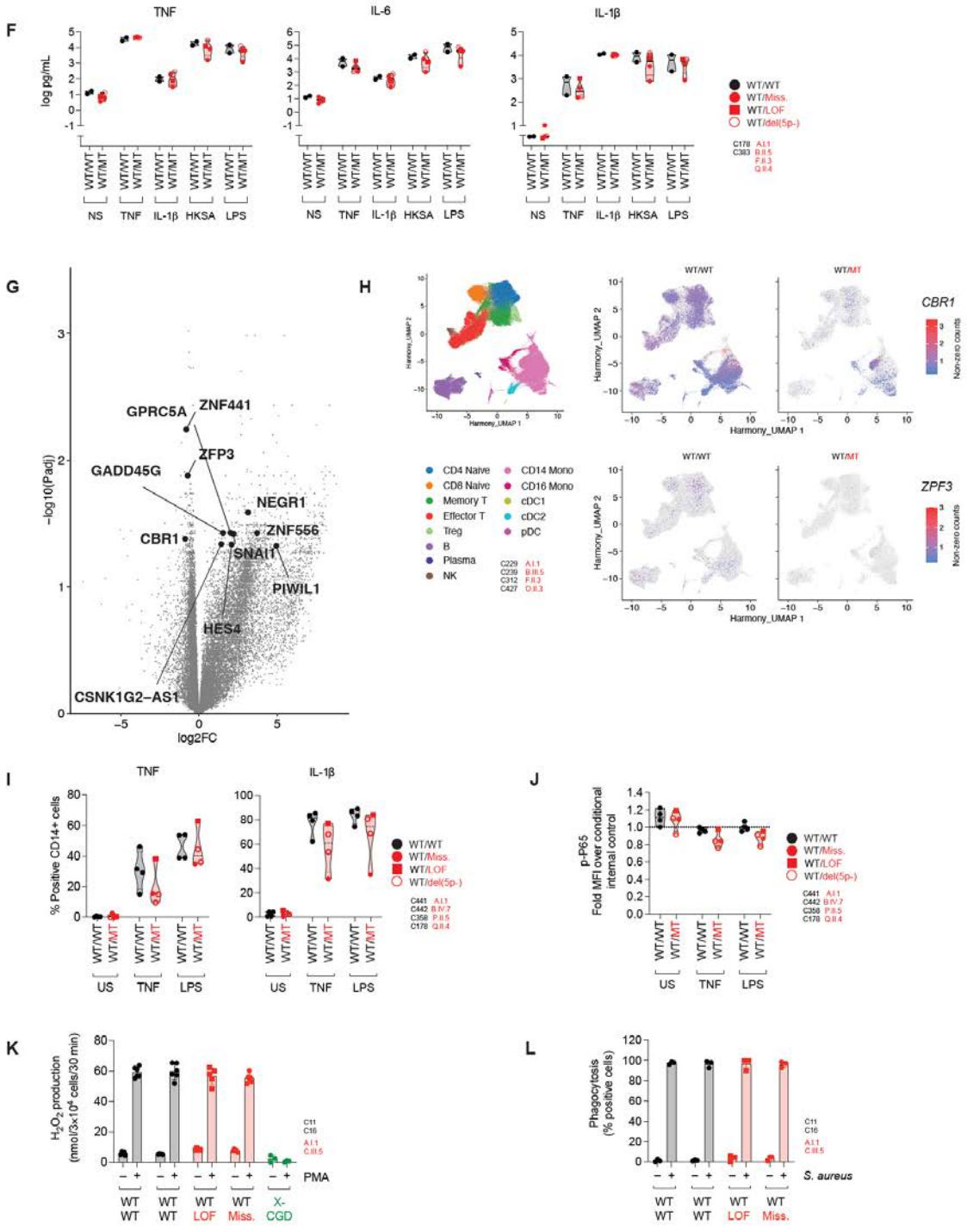


Figure S2 (Page 2/2)

Figure S2. OTULIN haploinsufficiency does not impair the hematopoietic immune system. Related to Figure 2. (A) Expression of OTULIN in monocytes. **(B)** Individual uniform manifold approximation and projection (UMAP) plots of PBMCs from patients with autosomal dominant (AD) OTULIN deficiency and healthy controls, as assessed by cytometry by time-of-flight (CyTOF). **(C)** Abundances of the various PBMC subsets for the patients; comparison with adult (A) and pediatric (P) controls, as assessed by CyTOF. **(D)** Lineage marker expression profiles for the classification of leukocyte subsets, as assessed by CyTOF. **(E)** Gene-specific enrichment analysis of pathways contributing to the separation of transcriptional profiles at baseline between PBMCs from patients and PBMCs from healthy controls. **(F)** Secretion of TNF, IL-6, and IL-1β by PBMCs at baseline and following stimulation (median). **(G)** Differential expression analysis for bulk RNA sequencing data for PBMCs from the patients combined with single-cell RNA sequencing data for their $CD14^+$ monocytes, in comparison with those from healthy controls. Black dots represent genes identified as significantly upregulated or downregulated in both the bulk RNA sequencing data and the single-cell RNA sequencing data for $CD14^+$ monocytes. **(H)** UMAP plots of single-cell RNA sequencing data for PBMCs from patients with OTULIN haploinsufficiency and healthy controls, with expression data for two representative genes differentially expressed at baseline in both the bulk RNA sequencing data and the single-cell RNA sequencing data for $CD14^+$ monocytes. **(I)** Intracellular cytokine staining for TNF and IL-1β in $CD14^+$ monocytes at baseline and following stimulation (median). **(J)** Phosphorylated P65 levels in $CD14^+$ monocytes at baseline and following stimulation, relative to those in a healthy donor internal control, as determined by flow cytometry (median). **(K)** Oxidative burst in induced pluripotent stem cell (iPSC)-derived macrophages (mean ±SD, N=3-6). **(L)** Phagocytic capacity of iPSC-derived macrophages for *S. aureus* (mean ±SD, N=3).

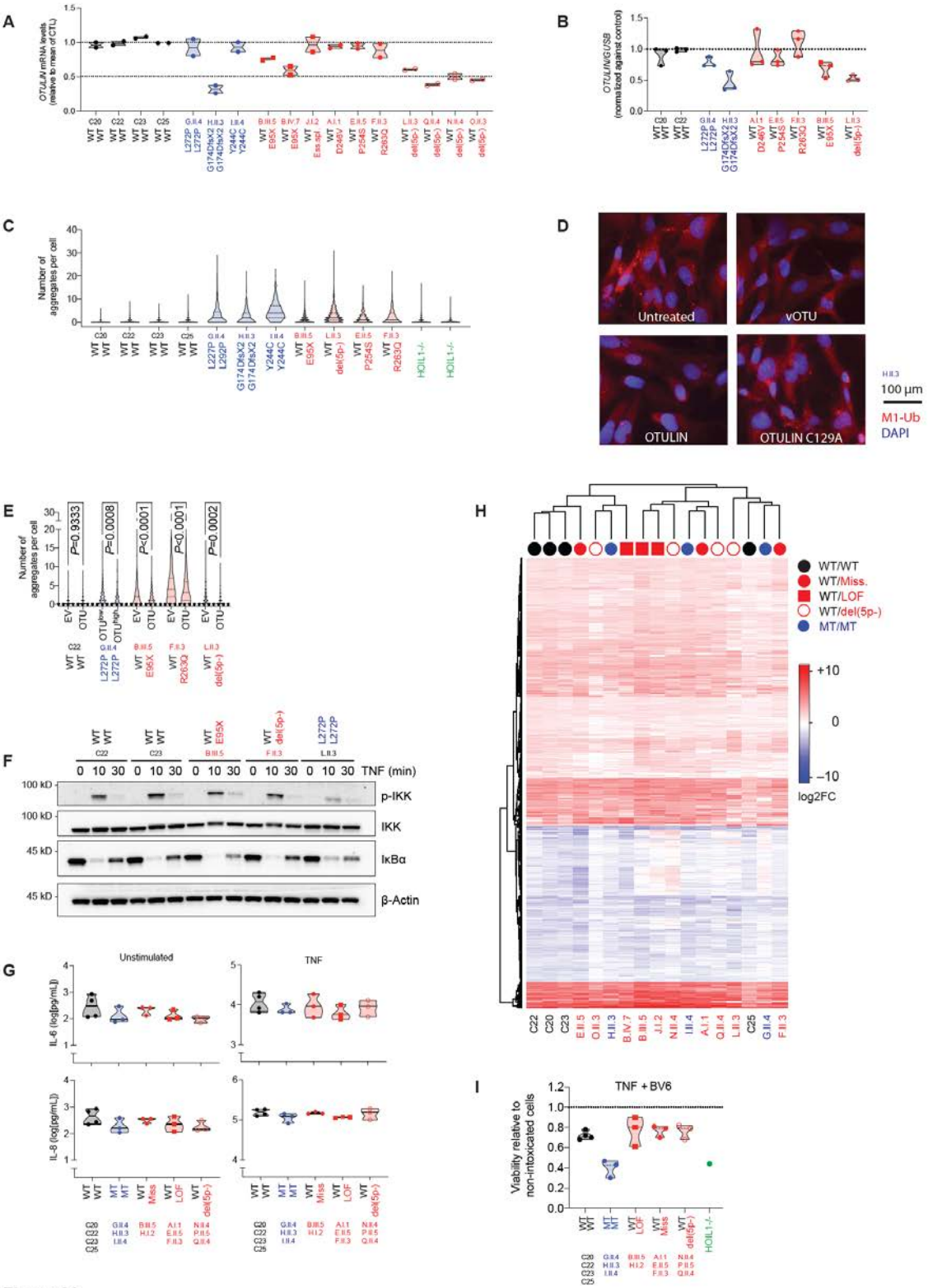

A
OTULIN mRNA levels (relative to mean of CTL)
B
OTULIN/HGUSB (normalized against control)
C
Number of aggregates per cell
D
Untreated
vOTU
OTULIN
OTULIN C129A
100 µm
M1-Ub
DAPI
E
Number of aggregates per cell
P=0.9333
P=0.0008
P<0.0001
P<0.0001
P=0.0002
F
TNF (min)
p-IKK
IKK
IκBα
β-Actin
G
Unstimulated
TNF
IL-6 (log[pg/mL])
IL-8 (log[pg/mL])
H
WT/WT
WT/Miss.
WT/LOF
WT/del(5p-)
MT/MT
log2FC
I
TNF + BV6
Viability relative to non-intoxicated cells

Figure S3

Figure S3. *OTULIN* gene dosage-dependent accumulation of M1-Ub in fibroblasts. Related to Figure 3. (A) *OTULIN* expression in primary dermal fibroblasts (PDFs), as determined by RNA sequencing and expressed relative to the mean value for controls (median, *N*=2). **(B)** *OTULIN* expression in PDFs, as determined by RT-qPCR, expressed relative to the mean for the controls (median, *N*=3). **(C)** Quantification of aggregates containing M1-Ub in immortalized fibroblasts, as assessed by immunohistochemistry. **(D)** Aggregates containing M1-Ub in immortalized fibroblasts treated with recombinant vOTU, wild-type human OTULIN, or catalytically dead OTULIN (p.C129A). **(E)** Quantification of aggregates containing M1-Ub in immortalized fibroblasts transduced with an empty virus or with wild-type OTULIN. For the cell line with a biallelic OTULIN deficiency, comparative analyses were performed on cells with high and low levels of exogenous *OTULIN* expression after viral transduction with wild-type *OTULIN*. **(F)** NF-κB signaling in immortalized fibroblasts upon stimulation with TNF. **(G)** Cytokine secretion in PDFs, as detected by ELISA (datapoints indicate the mean of *N*=3 replicates per patient, the median per group). **(H)** Transcriptional response of PDFs following 6 h of stimulation with TNF, expressed as the $\log_2$-fold changes (FC) relative to the mean value for unstimulated controls. Genes satisfying the threshold for statistical significance upon stimulation with TNF relative to baseline (*N*=3,344), as detected by RNAseq, are shown. **(I)** Viability of PDFs after stimulation with a combination of TNF and BV6 (median). The statistical significance of differences was calculated by ANOVA with Dunnett post hoc correction for multiple comparisons.

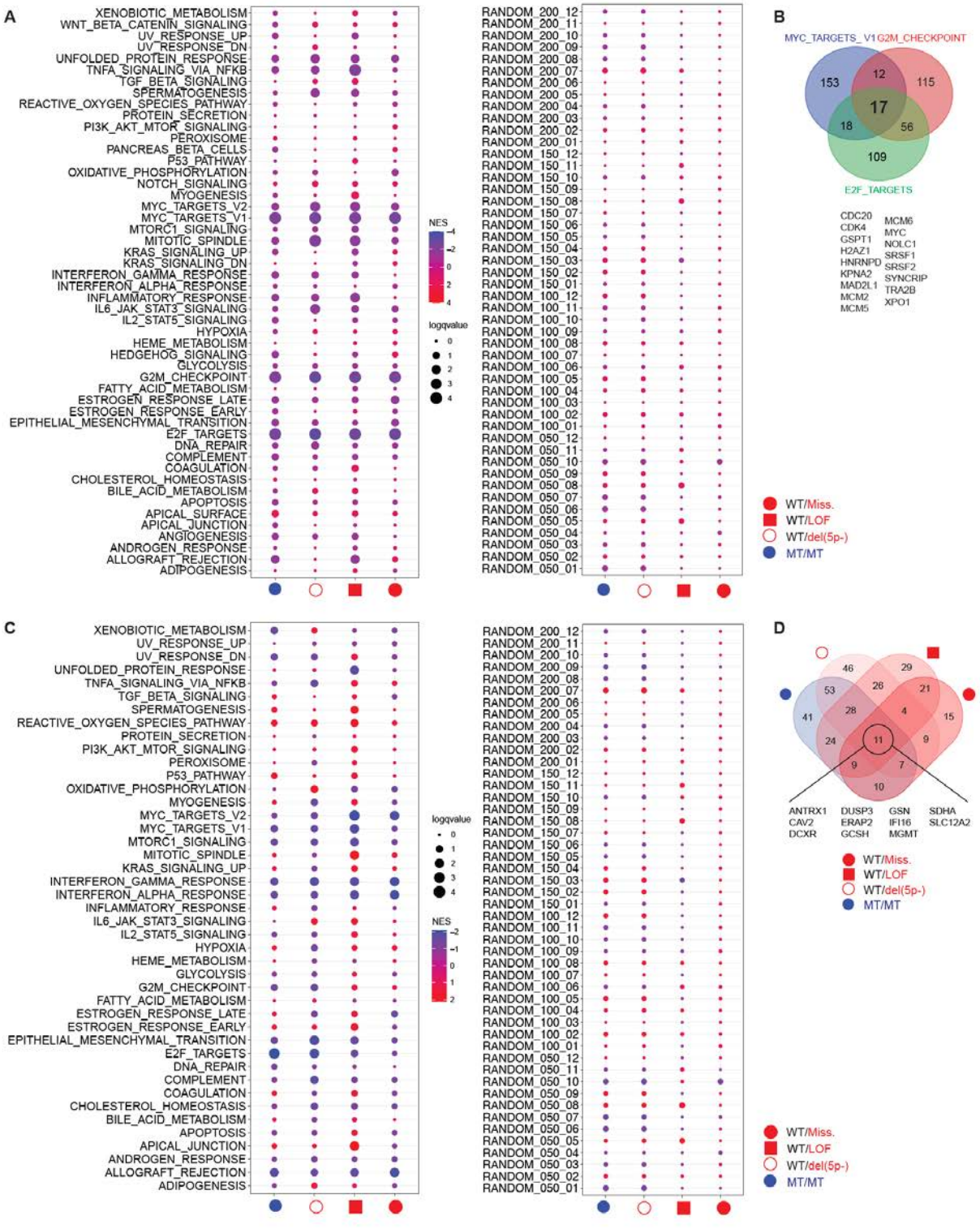


Figure S4 (Page 1/2)

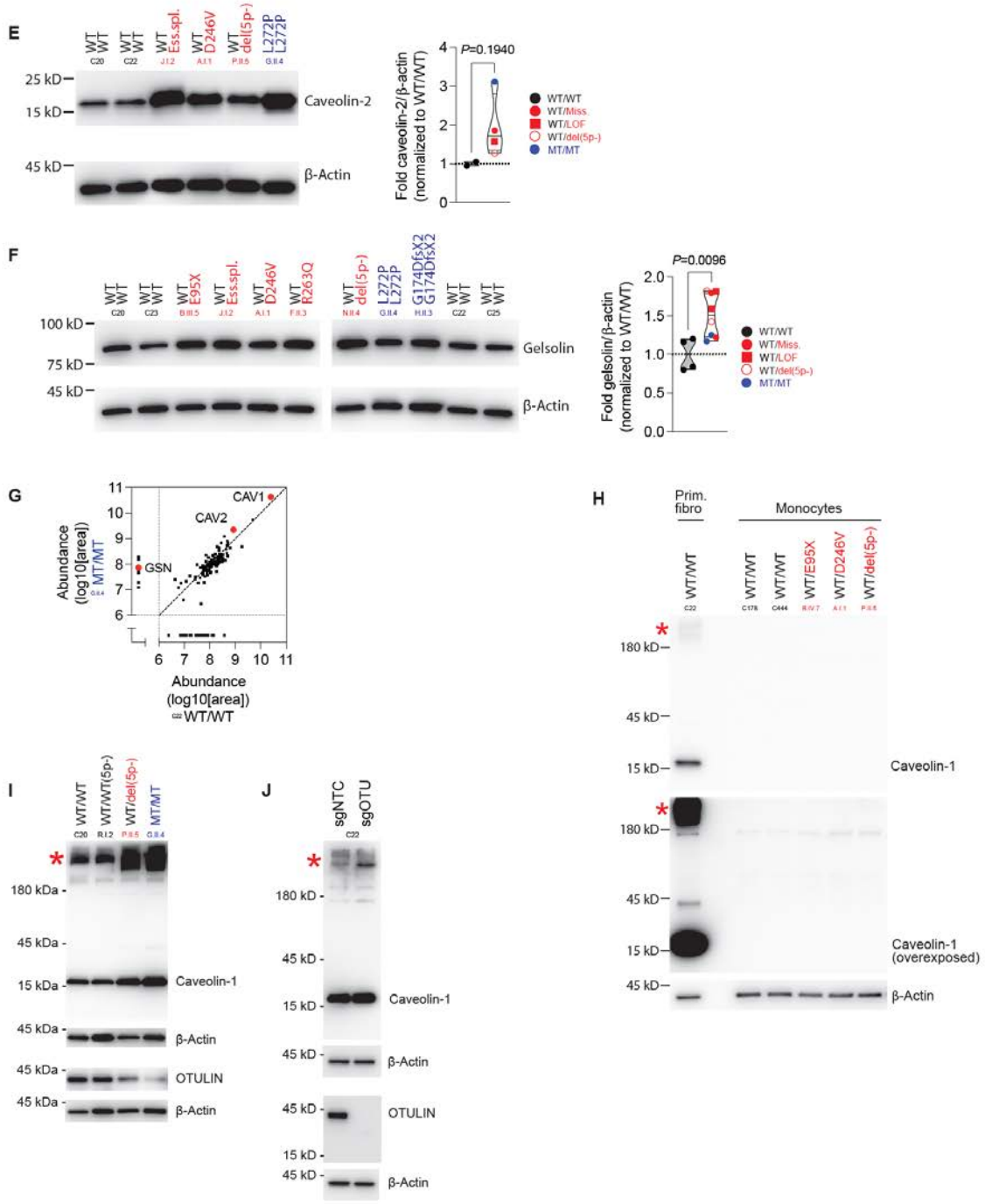


Figure S4 (Page 2/2)

Figure S4. *OTULIN*-dependent accumulation of caveolin-1 in fibroblasts. Related to Figure 4. (A) Gene-specific enrichment analysis (GSEA) of the transcriptional profile of unstimulated primary dermal fibroblasts (PDFs), with Hallmark or random gene sets, with log_2-fold changes (FC) for the specific groups relative to the mean in controls for all genes used as an input for ranking. **(B)** Overlap between the gene sets displaying enrichment in the patients. **(C)** GSEA on the proteomic profiles of unstimulated PDFs, with Hallmark or random gene sets, with log_2FCs relative to the mean values in controls for all detected proteins used as an input for ranking. **(D)** Identification of proteins satisfying the threshold for statistical significance for differential abundance in various genotypes. **(E)** Abundance of caveolin-2 in whole-cell lysates (WCLs) from PDFs. Caveolin-2 intensities relative to β-actin intensities, normalized against the mean value for healthy controls (datapoints indicate the mean of N=2 replicates per patient, the median per group). **(F)** Abundance of gelsolin in WCLs of PDFs. Gelsolin intensities relative to β-actin intensities, normalized against the mean value for healthy controls (datapoints indicate the mean of N=2 replicates per patient, the median per group). **(G)** Peptide abundance analysis by LC-MS/MS following the immunopurification of caveolin-1 in WCLs from PDFs. Dotted lines indicate detection thresholds; the dashed line indicates a hypothetical correlation coefficient of one. **(H)** Caveolin-1 levels in WCLs from monocytes relative to PDFs. **(I)** Absence of accumulation of the high-MW caveolin-1-containing complex in PDF-WCLs from a 5p- syndrome patient with a breakpoint telomeric to *OTULIN*. **(J)** Accumulation of high-molecular weight (MW) caveolin-1-containing complexes in WCLs from isogenic PDFs treated with an sgRNA pool targeting *OTULIN* (sgOTU) or a non-targeting control sgRNA (sgNTC). The statistical significance of differences was assessed in Student's *t*-tests.

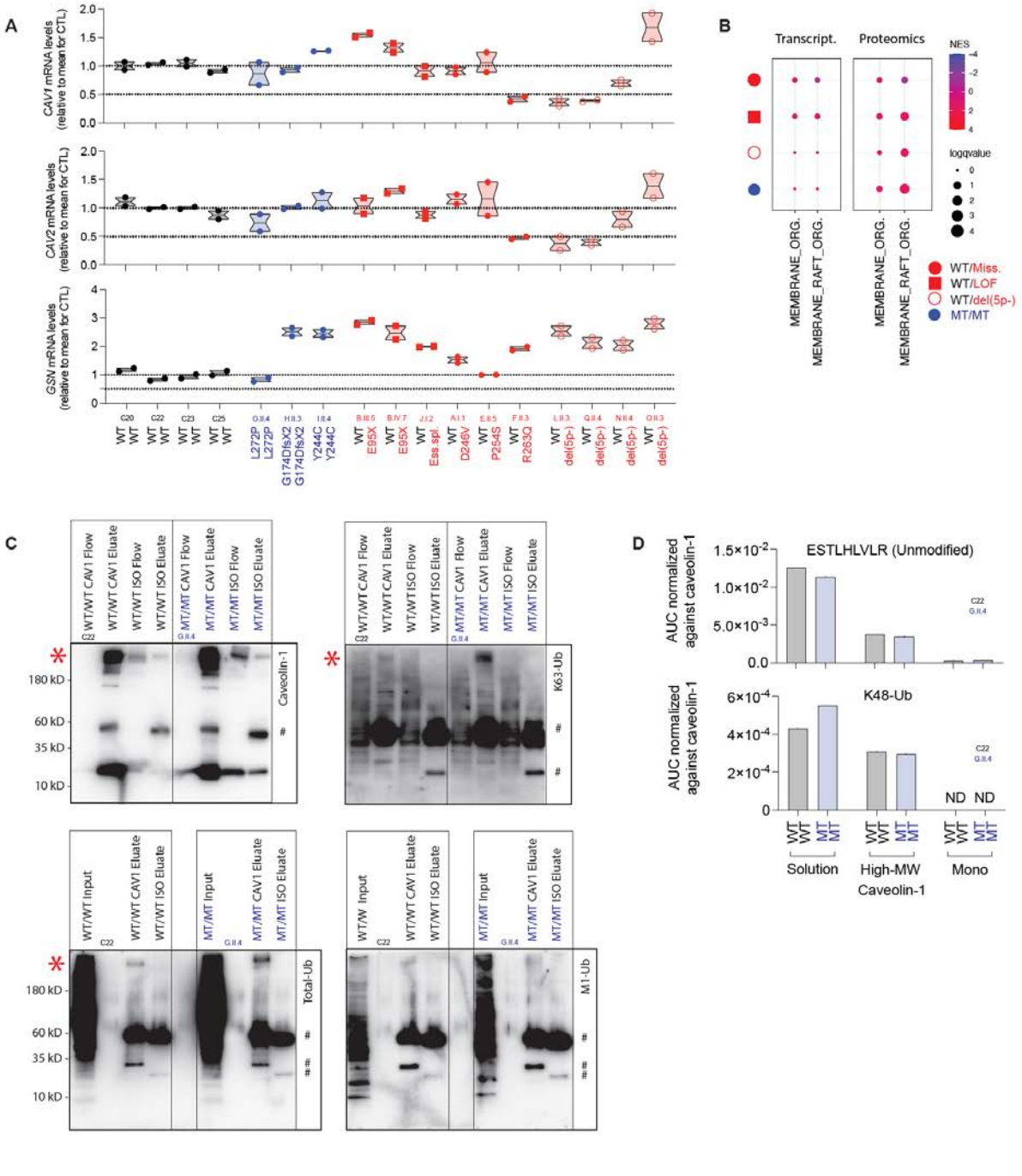


Figure S5 (Page 1/3)

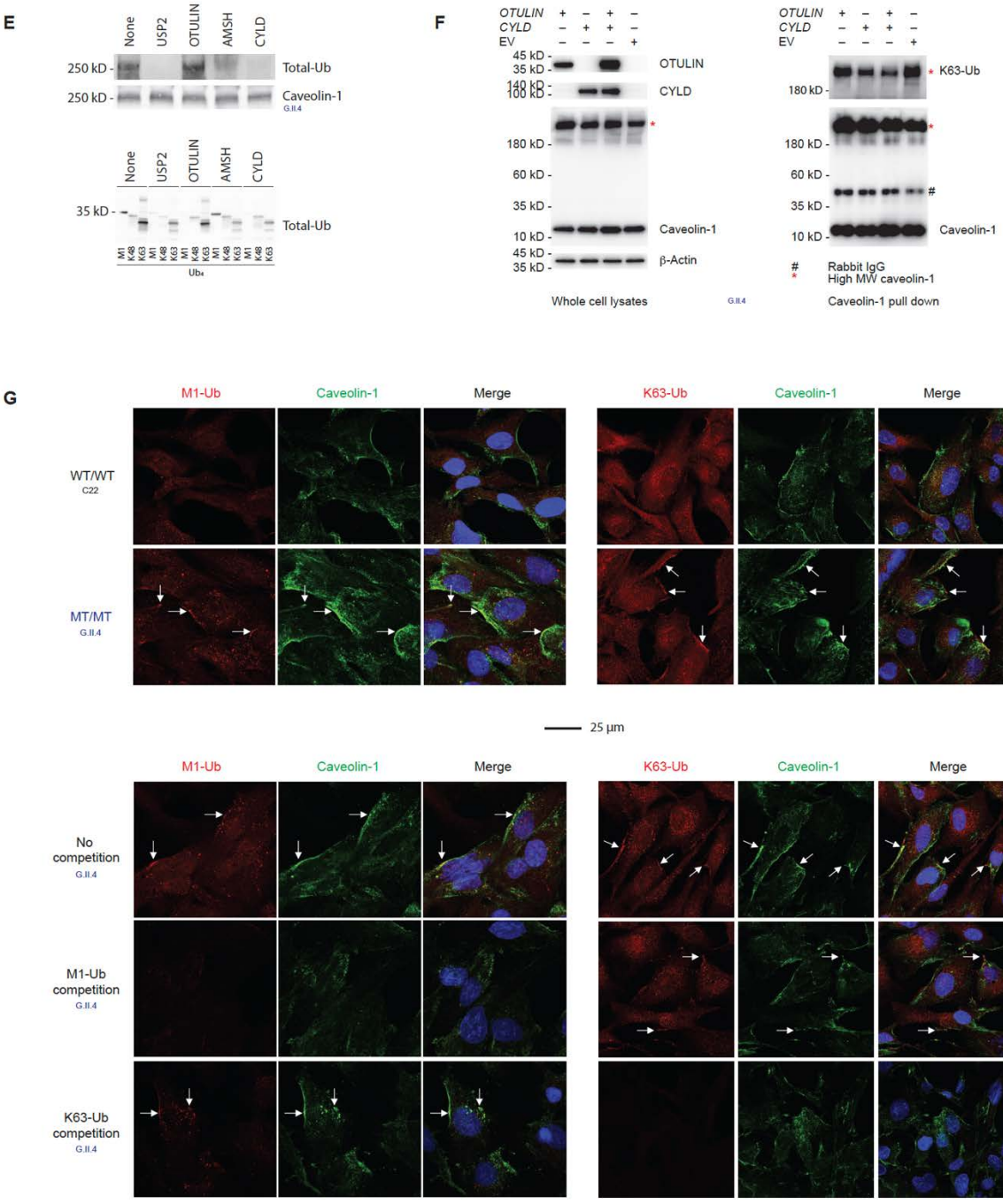


Figure S5 (Page 2/3)

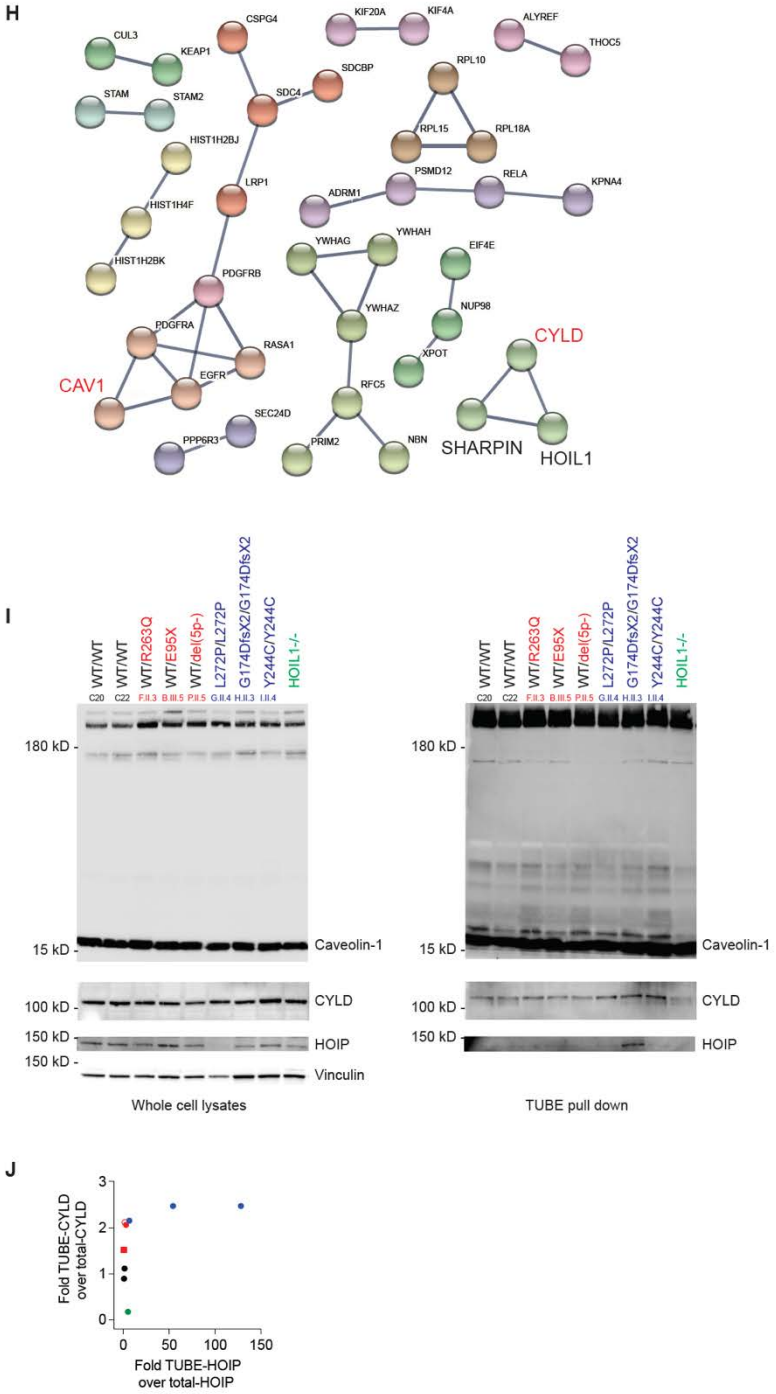
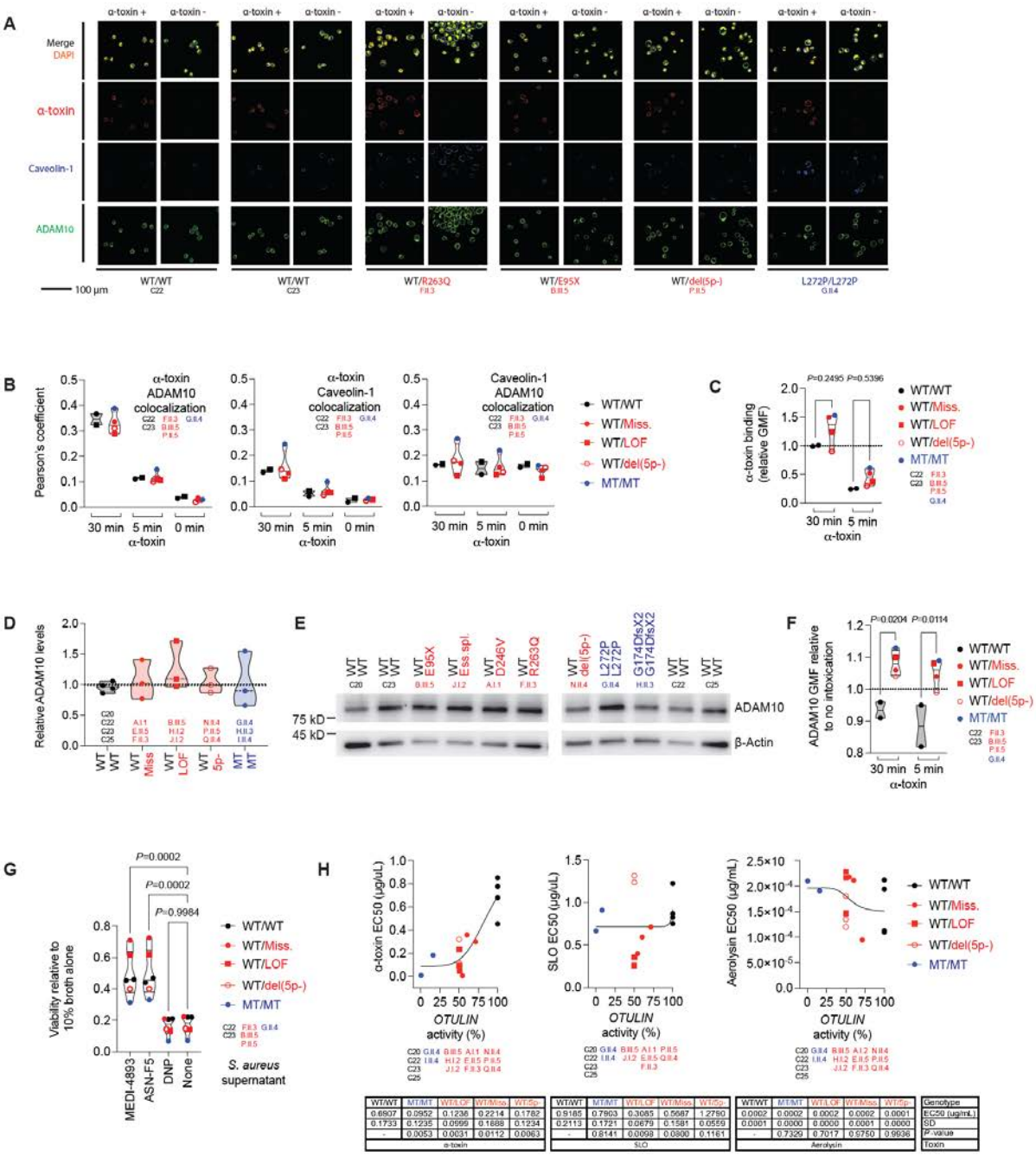


Figure S5 (Page 3/3)

Figure S5. Polyubiquitination of caveolin-1. Related to Figure 5. (A) Expression of *CAV1*, *CAV2*, and *GSN* in primary dermal fibroblasts (PDFs), as determined by RNA sequencing, expressed relative to the mean value for controls (median, *N*=2). **(B)** Transcriptional and proteomic profile of unstimulated PDFs, analyzed by gene ontology for specific biological pathways. **(C)** Caveolin-1 (CAV1) or isotype control (ISO) immunopurification products (IPs) from whole cell lysates (WCLs) of PDFs subjected to immunoblotting for caveolin-1, total ubiquitin, K63-Ub, and M1-Ub on independent blots. **(D)** Analysis of K48-Ub and unmodified ubiquitin on caveolin-1 by LC-MS/MS in caveolin-1 IPs from PDF WCLs. Caveolin-1 was analyzed in solution, in the high-molecular weight (MW) complex fraction, and in the monomeric (Mono) fraction. **(E)** High-MW K63-Ub complex in recombinant deubiquitinase-treated purified caveolin-1 from PDFs. **(F)** High-MW K63-Ub complex in purified caveolin-1 from PDFs after rescue with *CYLD* and/or *OTULIN*. **(G)** Colocalization of caveolin-1 with M1-Ub and K63-Ub aggregates in immortalized fibroblasts, as assessed by immunohistochemistry. **(H)** STRING analysis of the cluster of proteins identified by AQUA-MS/MS in TUBE pull-downs from immortalized fibroblasts. **(I)** Western blot analysis of caveolin-1, CYLD, and HOIP bound to linear ubiquitin, as detected in TUBE pull-downs from immortalized fibroblasts. **(J)** Intensities of CYLD and HOIP bound to M1-Ub, as detected in TUBE pull-downs from immortalized fibroblasts relative to intensities of total CYLD and HOIP, respectively. * high-MW caveolin-1-containing complex; # rabbit IgG. ND: not detected.



WT/WT	MT/MT	WT/LOF	WT/Miss	WT/5p
0.6907	0.0952	0.1236	0.2214	0.1782
0.1733	0.1235	0.0999	0.1688	0.1234
-	0.0053	0.0031	0.0112	0.0063
α-toxin				

WT/WT	MT/MT	WT/LOF	WT/Miss	WT/5p
0.9185	0.7903	0.3085	0.5687	1.2790
0.2113	0.1721	0.0679	0.1581	0.0559
-	0.8141	0.0098	0.0800	0.1161
SLO				

WT/WT	MT/MT	WT/LOF	WT/Miss	WT/5p
0.0002	0.0002	0.0002	0.0002	0.0001
0.0001	0.0000	0.0000	0.0001	0.0000
-	0.7329	0.7017	0.9750	0.9936
Aerolysin				

Genotype
EC50 (ug/mL)
SD
P-value
Toxin

Figure S6 (page 1/2)

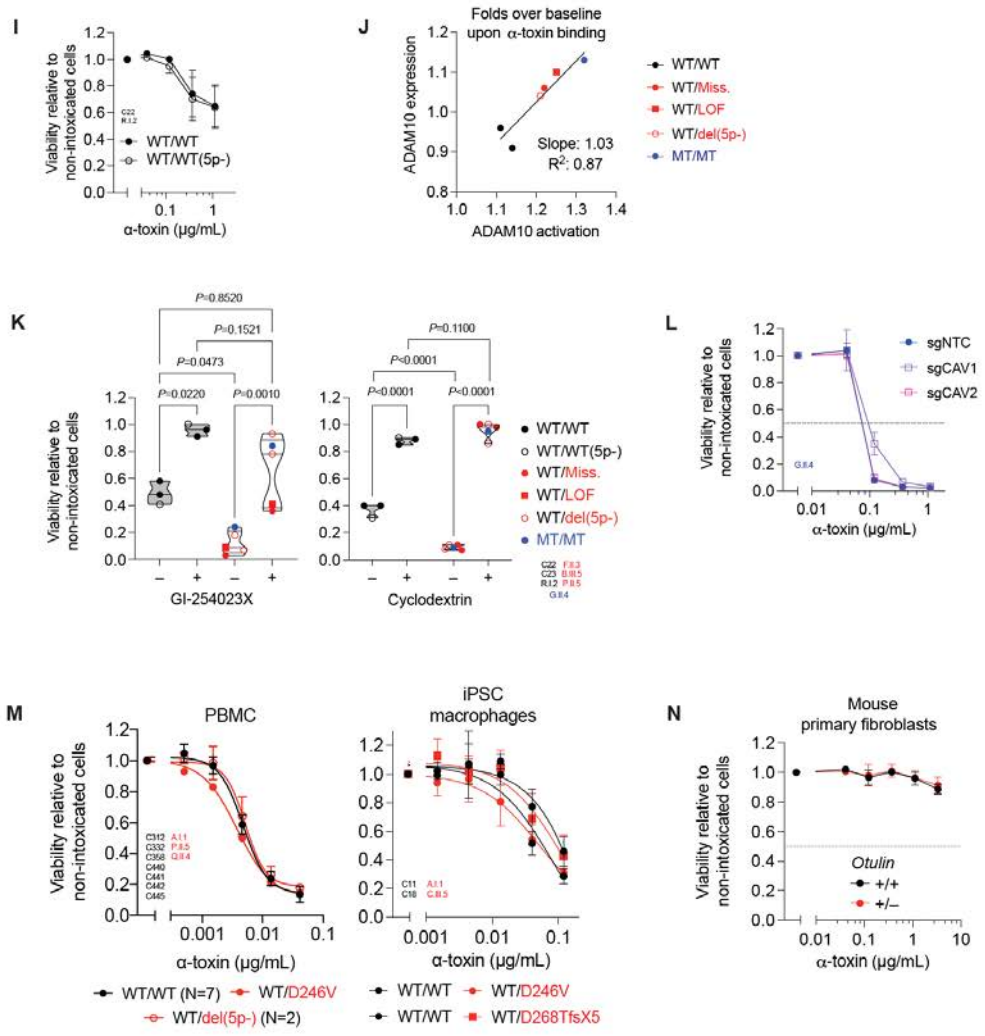


Figure S6 (Page 2/2)

Figure S6. OTULIN haploinsufficiency impairs intrinsic immunity to α-toxin in fibroblasts. Related to Figure 6. **(A)** Images from a representative experiment, acquired after 30 minutes of incubation of primary dermal fibroblasts (PDFs) in the absence or presence of α-toxin, used as input for the quantification of colocalization. **(B)** Quantification of the colocalization of α-toxin and ADAM10, α-toxin and caveolin-1, and of ADAM10 and caveolin-1 in PDFs, as assessed by confocal microscopy (datapoints indicate the mean of *N*=3 per patient, the median per group). **(C)** Binding of α-toxin in PDFs, as assessed by flow cytometry, relative to the mean value for controls (datapoints indicate the mean of *N*=3 per patient, the median per group). **(D)** ADAM10 surface expression on PDFs, as detected by flow cytometry, relative to a healthy donor internal control (datapoints indicate the mean of *N*=1-3 replicates per patient, the median per group). **(E)** ADAM10 levels in whole-cell lysates from PDFs. **(F)** ADAM10 surface expression following the addition of α-toxin relative to baseline, with detection by flow cytometry (datapoints indicate the mean of *N*=3 replicates per patient, the median per group). **(G)** Viability of PDFs following 2.5 h of incubation with culture supernatant from *S. aureus* pretreated with monoclonal antibodies neutralizing α-toxin (MEDI-4893, ASN-F5) or against 2,4-dinitrophenol (DNP) (datapoints indicate the mean of *N*=3 per patient, the median per group). **(H)** Maximal half-effective concentrations (EC_{50}) in PDFs after incubation for 24 h with recombinant toxins (*N*=2-4 per group, mean ±SD per group). EC_{50} values were calculated in nonlinear regression analyses. **(I)** Viability of PDFs from a patient with 5p- syndrome with a breakpoint telomeric to *OTULIN* (WT/WT(5p-)) relative to those from a healthy control (WT/WT), following 24 h of incubation with recombinant α-toxin (*N*=3, mean ±SD). **(J)** Simple linear regression analysis of cell surface metalloprotease activation (Figure 3G) versus ADAM10 expression (Figure 3C) following α-toxin binding to PDFs. **(K)** Viability of PDFs after treatment with an ADAM10-inhibitor or carrier, or with cyclodextrin followed by 24 h of incubation with α-toxin (datapoints indicate the mean of *N*=2 per patient, the median per group). **(L)** Viability in OTULIN-deficient PDFs treated with an sgRNA pool targeting *CAV1* (sgCAV1), *CAV2* (sgCAV2), or a non-targeting control sgRNA (sgNTC) (*N*=3, mean ±SD). **(M)** Viability of peripheral blood mononuclear cells (PBMCs) (*N*=1-3 per patient, mean ±SD) and induced pluripotent stem cell (iPSC)-derived macrophages (*N*=3 per patient, mean ±SD) after incubation for 2 h (PBMCs) or 24 h (iPSC-derived macrophages) with recombinant α-toxin. **(N)** Viability of mouse PDFs after 24 h of incubation with recombinant α-toxin (*N*=3, mean ±SD). Statistical significance was assessed by ANOVA with Dunnett post hoc correction for multiple comparisons.

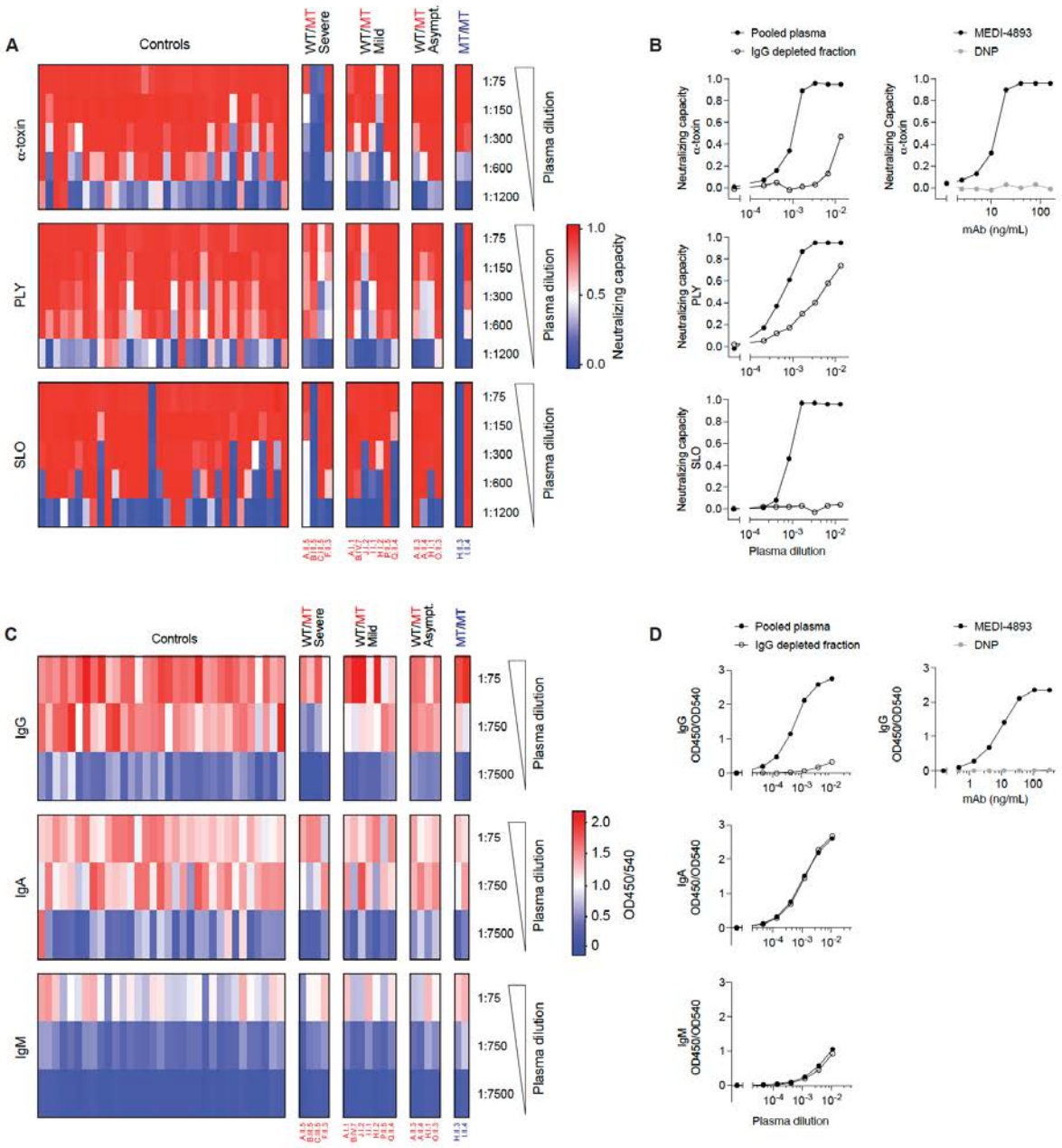


Figure S7 (Page 1/2)

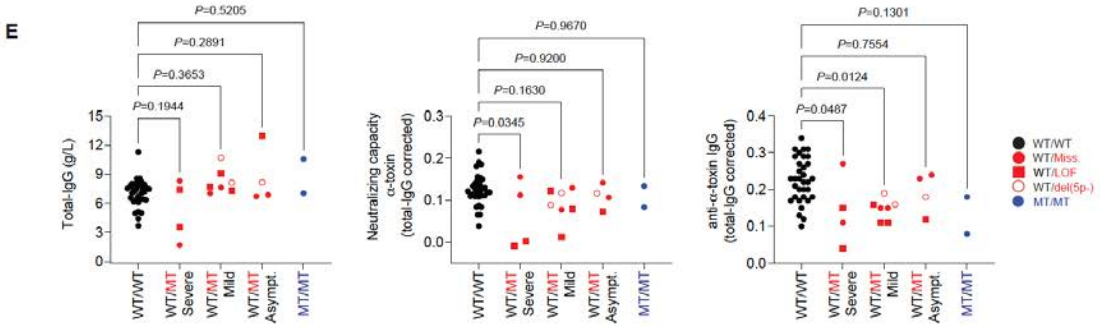


Figure S7 (Page 2/2)

Figure S7. α-toxin-neutralizing antibodies rescue OTULIN haploinsufficiency. Related to Figure 7. (A) The capacity of plasma to neutralize the hemolytic activity of α-toxin (20 ng/mL), pneumolysin (PLY, 0.67 ng/mL), and streptolysin O (SLO, 42 ng/mL) was assessed with rabbit erythrocytes. **(B)** Contribution of IgG to the neutralizing capacity of plasma. **(C)** Anti-α-toxin immunoglobulin levels in plasma, as determined by ELISA. **(D)** Contribution of IgG to anti-α-toxin immunoglobulin levels. **(E)** Total-IgG levels in the samples tested, with detection by ELISA. Capacity of plasma to neutralize the hemolytic activity of α-toxin at a dilution of 1:300, corrected for total IgG levels. Anti-α-toxin IgG levels, corrected for total IgG levels. The statistical significance of differences was determined by ANOVA with Dunnett post hoc correction for multiple comparisons.

Table S1. Rare, predicted deleterious variants in the cohorts of cases patients with staphylococcal disease (*N*=105) and controls with mycobacterial diseases (*N*=1,274). Related to Figure 1. Provided as separate document.

Table S2. Proportions of individuals with rare damaging variants in the cases and the controls as compared by logistic regression with likelihood ratio tests. Related to Figure 1 and Table S1. Provided as separate document.

Table S3. The antibodies used in the study. Related to Materials and Methods. Provided as separate document.

Table S4. The whole cell lysis buffers used in the study. Related to Materials and Methods. Provided as separate document.

CHR	POS	ID	REF	ALT
1	861329	rs371217242	A	G
1	861368	.	C	G
1	881805	.	C	A
1	881909	.	C	T
1	887938	.	G	A
1	887949	.	T	G
1	891555	.	G	A
1	897341	.	C	G
1	898806	.	G	A
1	899302	.	C	G
1	899520	.	G	A
1	905971	.	T	C
1	915662	.	C	T
1	949363	.	G	A
1	949797	.	G	C
1	949832	rs139357483	G	C
1	981637	.	C	T
1	1119314	rs267597921	C	T
1	1119328	.	G	A
1	1178243	.	AG	A
1	1178280	.	CGG	C
1	1192407	.	G	A
1	1222248	.	C	T
1	1225753	rs113197404	C	G
1	1231277	.	T	G
1	1237399	rs367817509	C	G
1	1244966	.	C	G
1	1248183	.	C	A
1	1255869	.	C	T
1	1255899	.	G	C
1	1289421	.	T	C
1	1289825	.	G	C
1	1290205	.	G	A
1	1322783	.	C	T
1	1322785	.	G	T
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1	1341054	.	C	T
1	1372591	.	G	A
1	1372744	.	G	A
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1	1685597	.	C	T
1	1688035	.	C	A

1	1688054	.	G	T
1	1847998	.	G	C
1	1848206	rs200415259	A	C
1	1848287	rs201706077	G	T
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1	1896458	.	T	G
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1	2125438	.	T	A
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1	2319741	.	A	G
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1	2520050	.	T	G
1	2524113	.	C	T
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1	3428621	.	A	G
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1	36367893	.	T	C
1	36437700	.	C	G
1	36437817	.	C	T
1	36552860	.	G	A
1	36636682	rs200983463	C	T
1	36637137	.	C	A
1	36640532	.	T	C
1	36640555	.	A	G
1	36645473	.	A	G
1	36752175	.	G	A
1	36752352	.	G	T

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1	36755170	.	C	T
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1	36773194	.	A	G
1	36773766	.	G	C
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1	36929443	.	G	A
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1	37948093	.	C	T
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1	37962324	.	A	C
1	37967463	.	T	C
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1	38019794	.	G	A
1	38039997	rs148607956	G	C
1	38040417	.	A	C
1	38042139	.	G	C
1	38048519	.	C	G
1	38049472	.	T	C
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1	38152069	.	G	C
1	38152119	.	A	T
1	38155476	.	C	T
1	38171123	.	AC	A
1	38185206	.	A	C
1	38188764	.	C	G
1	38188782	.	G	A
1	38227235	.	G	A
1	38227440	.	G	A
1	38227485	.	G	C
1	38227692	.	C	A
1	38265466	.	T	G
1	38269989	.	A	G
1	38280920	.	A	G
1	38297918	rs112642117	G	A
1	38297954	.	A	C
1	38323322	.	T	A
1	38331537	.	C	A
1	38353999	.	T	C
1	38409522	.	C	T
1	38463367	rs141853329	C	A
1	38464802	.	G	A

1	38478479	.	C	T
1	38483424	.	G	T
1	38488428	.	G	A
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1	39340936	.	G	A
1	39341130	.	A	C
1	39341217	rs144059875	G	A
1	39341427	.	C	T
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1	39494413	.	T	A
1	39549960	.	C	T
1	39876394	.	A	G
1	39876488	.	A	G
1	39876716	rs141259269	C	T
1	39876805	.	C	G
1	39877294	.	A	G
1	39878020	.	A	T
1	39879490	.	T	A
1	39879548	.	C	G
1	39879553	.	G	A
1	39879811	.	G	A
1	39879829	.	G	A
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1	39916857	.	G	A
1	39918006	.	A	G
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1	39991412	.	A	G
1	40035268	.	T	G
1	40092619	.	A	G
1	40092769	.	C	G
1	40097247	.	A	G
1	40131203	.	G	C
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1	40315925	.	T	G
1	40363546	.	G	A
1	40434031	.	G	A
1	40668159	.	T	A
1	40702042	.	C	G
1	40703643	.	C	A
1	40704528	.	A	T
1	40704627	.	T	C
1	40704953	.	C	T
1	40704975	.	C	T
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1	40713832	.	G	A

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1	40928868	.	A	T
1	40961480	.	T	C
1	40980776	rs370886885	C	T
1	41012779	rs201288463	G	A
1	41012999	.	C	T
1	41012999	.	C	G
1	41092284	.	G	A
1	41107492	.	C	G
1	41107566	.	G	C
1	41283944	.	A	G
1	41456910	.	C	T
1	41485978	.	G	A
1	41512250	.	G	A
1	41514455	rs142187533	G	C
1	41608624	.	C	T
1	42629079	.	C	T
1	42629086	.	G	A
1	42657224	.	C	G
1	42657343	.	A	G
1	42660599	.	A	C
1	42875775	rs371035515	G	A
1	42902142	rs143810024	T	TA
1	42905555	.	T	C
1	42922410	.	C	T
1	42922625	rs542795662	A	C
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1	43002194	.	G	A
1	43032078	.	C	T
1	43055122	.	C	A
1	43126563	.	AG	A
1	43203960	.	G	A
1	43215961	.	T	C
1	43215967	.	A	T
1	43218335	.	C	T
1	43220543	rs369660042	C	T
1	43220836	.	T	A
1	43224589	.	G	A
1	43224870	.	A	G
1	43224968	.	C	T
1	43227999	.	G	A
1	43260242	.	A	T
1	43395436	rs139412383	C	T
1	43632894	rs144903660	C	T
1	43663300	.	G	T
1	43708916	.	A	G
1	43773137	.	G	C
1	43779530	.	G	T

1	43787130	.	G	A
1	43831271	.	C	A
1	43888263	.	G	A
1	43888477	.	C	T
1	43893920	.	G	A
1	43895773	.	A	G
1	43896689	.	C	T
1	43904738	.	G	A
1	43912749	.	C	T
1	43917327	.	G	A
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1	44085376	.	C	T
1	44086513	.	G	A
1	44128646	.	G	A
1	44401668	.	C	G
1	44415377	.	G	A
1	44423762	.	A	G
1	44438135	.	G	T
1	44438135	.	G	C
1	44442463	.	C	T
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1	44595216	.	G	GC
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1	44685079	.	C	T
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1	45232841	rs201647887	G	C
1	45253079	.	C	T
1	45268436	.	A	T
1	45268446	.	C	T
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1	45268635	.	T	C
1	45268772	.	C	T
1	45269913	.	C	A
1	45271246	.	T	G
1	45271297	.	C	T
1	45276082	.	A	G
1	45279388	.	C	G
1	45292624	.	G	A
1	45292918	.	T	C
1	45292919	.	T	G
1	45297966	.	C	T
1	45297969	.	G	T
1	45796198	rs3219494	C	A
1	45797384	.	G	A
1	45798959	.	G	T

1	45800165	.	G	A
1	45806831	.	ATG	A
1	45811597	.	G	A
1	45812677	.	C	T
1	45813366	.	C	T
1	45887509	rs199634022	G	A
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1	45974615	.	C	T
1	46083226	rs72883665	C	G
1	46087002	rs3014244	C	T
1	46087022	.	A	C
1	46087095	.	G	A
1	46087313	rs201021595	G	A
1	46099237	.	C	A
1	46106030	.	T	C
1	46108158	.	G	A
1	46156742	.	T	A
1	46193463	.	A	C
1	46211917	.	G	A
1	46295168	.	G	T
1	46473976	.	G	A
1	46489442	.	A	G
1	46498057	.	C	G
1	46500444	rs372563937	G	A
1	46500510	.	G	A
1	46501572	.	C	T
1	46511640	.	T	TC
1	46659259	.	CTG	C
1	46724400	.	C	T
1	46725665	.	A	G
1	46733283	.	T	C
1	46736386	.	CG	C
1	46826464	.	G	A
1	46870716	.	G	A
1	46874136	.	C	A
1	46976836	.	C	T
1	46977960	.	C	A
1	46978045	.	C	G
1	47016749	.	C	A
1	47016782	.	C	T
1	47016883	.	T	C
1	47024335	.	GA	G
1	47042298	.	C	T
1	47078785	.	C	T
1	47139057	.	T	C
1	47162274	.	CT	C
1	47183654	.	G	A
1	47279248	.	TTGGAAGAG	T

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1	47398432	.	C	A
1	47399695	.	A	G
1	47495767	.	G	A
1	47512162	.	A	T
1	47512170	.	A	G
1	47653093	.	C	G
1	47717337	.	G	A
1	47745933	.	GCTGT	G
1	47755198	.	G	A
1	47759160	rs113209638	C	T
1	47882322	.	C	T
1	47904252	.	A	T
1	47904270	.	G	C
1	47904480	.	C	G
1	47904493	.	C	T
1	48697644	.	G	A
1	48698074	.	GT	G
1	48699410	.	T	G
1	48699435	.	G	A
1	48703395	.	C	T
1	48705004	.	G	A
1	48713135	.	C	G
1	48865156	.	T	A
1	48917239	.	C	G
1	50661335	.	C	A
1	51253729	.	T	C
1	51578190	.	T	C
1	51613315	rs549762813	G	A
1	51735764	.	C	T
1	51760077	.	GCAGCGAG/	G
1	51768234	.	C	T
1	51822382	.	G	C
1	51873869	.	C	T
1	51875241	.	T	G
1	51875298	.	T	C
1	51926803	.	A	G
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1	52211295	.	C	T
1	52227556	.	A	G
1	52250178	.	G	C
1	52253122	.	C	T
1	52256246	.	C	G
1	52264045	.	G	C
1	52272511	.	C	T
1	52704597	.	C	G
1	52705167	.	C	T

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1	52759279	.	G	T
1	52820329	.	A	T
1	52821898	.	G	A
1	52824358	.	C	T
1	52825136	.	G	A
1	52825429	.	G	A
1	52859236	rs367611068	G	A
1	52871427	.	C	T
1	52879575	.	C	A
1	52879575	.	C	G
1	52954676	.	C	T
1	52961146	.	C	T
1	53108627	.	C	T
1	53279566	.	G	GT
1	53322789	.	A	G
1	53322972	.	A	G
1	53323083	.	C	T
1	53329830	.	G	A
1	53343487	.	G	T
1	53352634	.	C	G
1	53372265	.	G	C
1	53373619	.	G	T
1	53377280	.	C	T
1	53535786	.	C	A
1	53537285	rs370514127	C	T
1	53544120	.	T	A
1	53558404	rs139648137	C	T
1	53569209	.	G	A
1	53569209	.	G	C
1	53679190	.	C	T
1	53682485	.	C	G
1	53684549	.	A	C
1	53685985	.	TC	T
1	53715201	.	A	C
1	53716375	.	T	C
1	53723110	.	ACGT	A
1	53727843	.	T	G
1	53727864	.	C	T
1	53729901	.	C	A
1	53925143	.	T	C
1	53925190	.	C	G
1	53990554	.	A	T
1	54059867	.	C	T
1	54238017	.	A	C
1	54266422	.	G	A
1	54293764	.	A	C
1	54337043	rs142756220	A	C

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1	54343993	.	A	C
1	54343993	.	A	G
1	54348910	.	T	A
1	54360168	.	C	A
1	54395748	.	C	T
1	54395803	.	A	T
1	54417673	.	A	G
1	54433419	.	T	C
1	54605426	rs139868539	C	T
1	54610381	.	A	T
1	54649875	.	A	G
1	54661189	.	G	A
1	54670798	rs112294124	G	A
1	55072821	.	T	A
1	55075378	.	CAGGCCAAT	C
1	55075434	.	C	A
1	55077292	.	G	T
1	55080532	.	C	T
1	55085609	rs200053764	G	A
1	55119378	.	C	G
1	55119635	.	A	G
1	55119719	.	C	G
1	55139731	.	C	G
1	55172107	.	G	A
1	55172207	.	A	C
1	55174718	.	G	T
1	55183237	.	C	T
1	55253766	rs200521080	G	C
1	55451885	.	C	T
1	55472713	.	G	GC
1	55512220	.	T	C
1	55512274	rs200505188	C	T
1	55523161	.	C	T
1	55523841	.	C	T
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1	55555363	.	C	G
1	55563299	.	C	T
1	55571936	.	C	T
1	55600070	.	C	G
1	55607298	.	G	T
1	55609865	.	A	G
1	55611679	.	G	T
1	55631598	.	G	C
1	55642100	.	A	C
1	56990105	.	C	T
1	57002629	.	C	T
1	57002761	.	C	T

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1	57161802	.	C	T
1	57173319	.	G	A
1	57207843	.	G	C
1	57395200	.	C	T
1	59125701	rs368658648	C	T
1	59142632	.	G	T
1	59155910	.	G	T
1	59922680	.	G	T
1	59978036	.	G	A
1	60125897	.	G	A
1	60312832	.	C	A
1	60476125	.	C	T
1	60503750	.	T	G
1	60505587	.	A	T
1	60505658	.	T	A
1	62166628	.	A	T
1	62293163	.	C	A
1	62545121	rs199695620	G	A
1	62672640	.	G	A
1	62675662	.	G	A
1	62676952	.	A	G
1	62713238	.	GA	G
1	62713296	.	T	C
1	62734164	.	A	T
1	62914274	.	T	C
1	62960062	.	G	A
1	63003665	.	C	T
1	63085658	.	C	G
1	63286827	.	C	A
1	63329691	.	A	G
1	63789280	.	C	G
1	64011610	.	AG	A
1	64021065	.	T	C
1	64027484	.	A	G
1	64097336	.	G	A
1	64515548	rs199925889	C	T
1	64643379	.	T	C
1	64643535	.	A	G
1	64643714	.	A	G
1	64643784	.	G	C
1	64644276	.	C	T
1	64644297	.	G	A
1	64671320	.	AGG	A
1	64671323	.	G	GCACT
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1	65130274	.	C	A
1	65141120	.	TC	T
1	65141151	.	C	A
1	65296637	.	A	G
1	65831854	.	A	G
1	65845123	.	T	A
1	66031251	.	G	A
1	66713331	.	G	A
1	67145397	.	C	T
1	67236153	.	A	G
1	67288192	.	G	A
1	67299731	.	T	G
1	67313207	.	C	A
1	67450377	.	G	A
1	67450519	.	C	A
1	67592865	.	A	G
1	67633774	.	G	A
1	67635298	.	G	A
1	67648558	.	A	T
1	67648558	.	A	G
1	67648614	.	G	T
1	67724240	.	T	C
1	67786054	.	G	A
1	67787405	rs142497181	A	C
1	67792465	.	C	T
1	67793909	.	G	C
1	67793929	.	AT	A
1	67794056	.	T	C
1	67795297	.	G	T
1	67796478	.	C	T
1	67838319	.	G	A
1	67838341	.	C	G
1	67852331	.	C	T
1	67861486	.	A	G
1	68616028	.	G	A
1	68619201	rs199608520	T	G
1	68903930	rs281865520	AT	A
1	68944936	.	G	C
1	68955290	.	A	G
1	70291459	.	G	C
1	70300493	.	C	A
1	70478665	.	T	A
1	70494039	.	G	C
1	70509698	.	C	T
1	70541953	.	A	C
1	70618123	.	C	T
1	70641505	.	T	C

1	70644643	rs377656620	A	G
1	70646823	.	T	A
1	70712572	.	G	A
1	70715711	rs201258859	C	G
1	70761850	.	C	T
1	70766548	.	G	C
1	70887262	.	C	A
1	70904450	.	G	A
1	71512414	.	G	A
1	71512755	.	A	C
1	71536543	.	G	A
1	74540406	.	A	T
1	74648287	.	G	A
1	74648346	.	G	T
1	74648346	.	G	A
1	74648379	.	C	G
1	74649217	.	G	A
1	74649251	.	A	T
1	74649313	.	T	C
1	74663994	.	C	A
1	74670981	.	C	T
1	74670989	.	G	A
1	74670989	.	G	T
1	74671312	.	T	G
1	74808631	rs34521608	C	CT
1	74808765	.	C	A
1	74808843	.	C	A
1	74832974	.	T	G
1	74835098	.	C	T
1	74905216	.	C	T
1	74941317	.	T	C
1	74946337	.	CG	C
1	75037306	.	G	C
1	75038072	.	CT	C
1	75038470	.	A	G
1	75038582	rs146897494	C	T
1	75055638	.	G	A
1	75097434	.	G	T
1	75102083	.	G	C
1	75180277	.	C	G
1	75180312	.	G	A
1	75185058	.	T	C
1	75204440	.	C	T
1	75608826	.	G	A
1	75707747	.	C	T
1	76254957	.	T	G
1	76255682	.	G	C
1	76259772	.	C	T

1	76259847	rs201388291	A	G
1	76313917	.	G	T
1	76333259	.	G	A
1	76343875	rs534654467	A	G
1	76344713	.	C	G
1	76355056	.	T	G
1	76356430	.	A	G
1	76356499	.	T	TG
1	76356499	.	T	G
1	76779590	.	T	C
1	76779612	.	G	A
1	76877775	.	A	G
1	77093166	.	G	C
1	77334186	.	A	G
1	77510030	.	G	T
1	77627317	.	C	T
1	77676138	.	TTGTA	T
1	77806158	rs565780075	G	A
1	78031808	.	G	C
1	78041806	.	C	T
1	78044503	.	G	C
1	78097623	.	C	T
1	78098712	.	C	G
1	78098898	.	T	C
1	78177469	.	T	G
1	78191355	.	G	T
1	78194058	.	C	G
1	78194070	.	C	T
1	78195574	.	T	A
1	78267074	.	C	T
1	78269055	rs146990716	C	G
1	78279472	.	C	T
1	78279473	.	G	T
1	78401563	.	A	C
1	78401671	.	C	T
1	78407794	.	G	C
1	78408218	.	A	AG
1	78408242	.	A	C
1	78408264	rs372924196	T	C
1	78429823	.	A	G
1	78430356	.	C	G
1	78470877	.	C	G
1	78958871	.	C	G
1	78959024	.	G	A
1	79093683	.	A	G
1	79107258	.	GA	G
1	79116320	.	A	T
1	79116322	.	G	C

1	79116325	.	T	A
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1	222713516	.	C	T
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1	223285072	.	C	A
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1	229434802	.	T	A
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1	229771751	rs535176841	G	A
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2	27248789	.	A	G
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2	27306523	.	A	T
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2	27500804	.	C	T
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2	27607619	.	G	A
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2	27729722	.	G	T
2	27730549	.	G	T
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2	27799879	.	CA	C
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2	28821517	.	A	G
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2	29259405	.	A	T
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2	33585796	rs4422143	T	G
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2	37304123	.	C	G
2	37306371	.	G	C
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2	37429018	.	T	G
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2	37505062	.	T	G
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2	37596849	.	T	G
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2	39200878	.	A	G
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2	39200976	rs201282883	G	A
2	39213297	.	C	T
2	39249941	.	G	C
2	39481620	.	T	C
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2	39536622	.	T	A
2	39944270	.	T	C
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2	44617418	.	C	A
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2	54115106	.	C	A
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2	54161861	.	A	G
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2	55252528	rs200686106	C	T
2	55277397	.	C	T
2	55407760	.	G	C
2	55435765	.	T	C
2	55470142	.	C	G
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2	55479739	.	C	T
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2	55573431	.	C	T
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2	55863395	.	G	A
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2	56098186	rs372748426	C	T
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2	56420161	.	G	A
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2	56602958	.	T	G
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2	58350354	.	C	G
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2	58386535	.	G	T
2	58386631	.	A	T
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2	61009880	.	C	T
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2	61121532	.	A	G
2	61149501	.	G	A
2	61149594	.	G	A
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2	61182201	.	A	T

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2	61236012	.	C	A
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2	61570977	.	A	G
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2	61577751	rs376902493	A	C
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2	61577799	.	G	C
2	61622071	.	G	A
2	61632847	.	A	G
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2	62099680	.	A	G
2	62104573	.	G	A
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2	62729870	.	A	G
2	63058254	rs143556955	A	G
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2	69093070	.	C	G
2	69093110	.	A	G
2	69093283	.	A	G
2	69174362	rs183499773	G	A
2	69302764	.	G	T
2	69708048	rs371548381	G	T
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2	69754433	.	T	C
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2	70074730	.	G	C
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2	70164503	.	C	T
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2	73493773	.	C	T
2	73675885	.	C	G
2	73718361	.	C	T
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2	73868466	.	A	G
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2	74086438	.	T	C
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2	74274453	.	C	G
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2	74709820	.	C	T
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2	74725077	.	C	T
2	74749871	.	T	C
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2	75879703	.	A	C
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2	84777029	.	G	A
2	84851413	.	G	A
2	84867670	rs537387843	G	T
2	84912519	.	G	A
2	84921594	.	C	G
2	84932800	.	A	G
2	84934797	.	G	A
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2	84949775	.	G	T
2	84949818	.	C	T
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2	85981877	rs201773606	G	C
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2	86088325	.	A	C

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2	96799239	.	A	G
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2	99412600	.	A	G
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2	99695151	.	C	A
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2	113940038	.	T	G
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2	120373266	.	T	G
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2	120833306	.	A	G
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2	120848034	.	G	T
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2	122159106	.	T	C
2	122208563	.	G	C
2	122286305	.	T	C
2	122488543	rs145402818	G	A
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2	125367489	rs545469961	A	G
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2	125521584	.	C	G
2	125669112	.	G	A
2	127821591	.	C	T
2	127950795	.	G	A
2	127950819	.	G	A
2	127951426	rs539536553	G	A
2	127956957	.	C	T
2	127957079	.	T	A
2	127958876	.	C	A

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2	128065243	.	C	T
2	128066227	.	C	A
2	128072445	.	G	C
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2	128261071	.	T	G
2	128263312	.	C	T
2	128281367	.	T	C
2	128322820	.	C	T
2	128339518	.	G	T
2	128347782	.	C	T
2	128392718	.	C	A
2	128393397	.	C	T
2	128394957	.	C	T
2	128408568	rs375805442	C	T
2	128471361	.	C	T
2	128471427	.	A	C
2	128471472	.	C	G
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2	128707931	.	G	C
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2	128877995	.	A	G
2	128880764	.	A	G
2	128886626	.	A	G
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2	128914916	.	A	G
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2	128917202	.	A	T
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2	128932398	.	A	C
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2	128944365	.	A	G
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2	131674799	.	C	G
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2	131888332	.	C	A
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2	132241765	.	C	A
2	133402836	rs541633150	A	G
2	133403037	.	A	T
2	133403839	.	T	G
2	133540368	.	C	T
2	133541595	.	G	A
2	133541871	.	G	T
2	133542358	.	C	T
2	133542951	.	G	C
2	133554212	.	C	T
2	133636426	.	C	T
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2	135309647	.	C	T
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2	135630042	.	G	A
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2	136409587	.	G	C
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2	136467034	.	T	C
2	136467649	.	G	T
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2	136610473	.	C	T
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2	144193242	.	G	A
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2	144461050	.	C	A
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2	149511608	.	T	C

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2	152235978	.	A	C
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2	152717288	.	A	G
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2	153504363	.	C	T
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2	160619433	.	T	G
2	160628550	.	T	A
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2	160673333	.	C	T
2	160673471	.	A	G
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2	160690714	.	C	T
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2	160709859	.	G	A
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2	163302700	.	A	G
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2	173429376	.	A	G
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2	174131351	.	A	G
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2	175263079	.	T	C
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2	175292591	.	C	T
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2	176043972	.	T	C
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2	176981928	.	C	T
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2	180830631	.	T	G
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2	185803577	rs12105159	G	A
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2	191233861	.	G	A
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2	192257883	rs147751540	C	T
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2	196651747	.	A	C
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2	196671469	.	C	T
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2	196682532	.	T	C
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2	196688986	.	G	C
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2	196718207	.	C	T
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2	196722167	.	A	G
2	196722381	.	A	G
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2	196740533	.	C	A
2	196750930	.	C	T
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2	196771454	rs168192	G	C
2	196771662	.	CA	C
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2	197597170	.	G	C
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2	197672147	.	C	T
2	197791315	.	C	T
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2	198949207	.	G	C
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2	200820771	.	G	C
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2	201399802	.	C	T
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2	201680190	.	G	A

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2	204009624	.	A	T
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2	204354393	.	C	G
2	204354558	.	C	G
2	204571438	.	G	A
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2	204820383	.	A	G
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2	205990383	.	G	A
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2	206892866	.	C	T
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2	207457379	.	C	T
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2	207823049	.	A	C
2	207824421	.	C	T
2	207827307	.	C	T
2	207834017	rs140061003	C	T
2	207834025	.	T	G
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2	239162335	.	C	G
2	239167194	.	G	C
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2	239988506	.	C	A
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2	240944673	.	G	A
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2	242149716	.	G	A
2	242155575	.	G	T
2	242163099	.	G	C
2	242176057	.	C	A
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2	242182063	.	G	T
2	242194527	.	T	C
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2	242374414	.	G	A
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2	242619727	.	T	C
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2	242695378	.	C	A
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3	3179091	.	G	A
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3	3888070	.	A	G
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3	4403893	.	G	T
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3	4735264	.	C	T
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3	99895216	.	A	G
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3	108363268	.	T	G
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3	108396438	.	A	G
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3	113119479	.	C	A
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3	167750475	.	C	T
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3	169492253	.	C	G
3	169514053	.	C	T
3	169540058	.	C	T
3	169540155	.	T	C
3	169546677	.	G	C
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3	169569412	.	G	C
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3	169646365	.	A	G
3	169656274	rs200235684	C	G
3	169802407	.	A	G
3	169846797	rs533549331	G	C
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3	169999017	.	G	A
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3	170078855	.	C	T
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3	170906528	.	G	T
3	171330085	.	G	A
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3	172048443	.	C	T

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3	172064211	.	G	A
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3	172162975	.	C	T
3	172241127	rs146728851	G	C
3	172353812	.	T	C
3	172363429	.	C	A
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3	172480754	.	T	C
3	172482180	rs572038937	C	A
3	172482210	.	G	A
3	172491745	.	C	T
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3	172501595	.	G	C
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3	172537954	.	C	T
3	172607457	rs372799441	T	C
3	172674554	.	C	T
3	172766751	.	T	C
3	172835155	.	C	T
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3	174815038	.	A	T
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3	175042012	.	G	C
3	175165055	rs376966139	C	G
3	175184935	rs542192876	C	G
3	175189446	.	A	C
3	175293875	.	A	G
3	175293899	.	G	A
3	175473095	.	C	A
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3	175520927	.	C	G
3	178546084	.	G	A
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3	179096541	rs374008474	G	A
3	179341797	.	A	G
3	179478965	.	C	T
3	179537694	.	T	C
3	180334625	.	C	CT
3	180337143	.	A	T
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3	182553889	.	C	G
3	182554196	.	G	A
3	182554862	.	C	A
3	182554960	.	C	G
3	182586924	.	G	A
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3	182602666	.	G	A
3	182615094	.	G	T
3	182662916	.	G	A
3	182871692	.	G	C
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3	183013231	.	T	A
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3	183041097	.	C	T
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3	183097163	.	A	T
3	183211976	.	T	G
3	183225932	.	AC	A
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3	183432993	.	T	A
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3	183472027	.	C	T
3	183476685	rs262993	G	C
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3	183528356	.	G	C
3	183551322	.	A	C
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3	183884641	.	C	T
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3	184045726	.	A	G
3	184046699	.	A	T
3	184049577	.	T	C
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3	184073298	.	A	G
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3	184290548	.	C	G
3	184294869	.	C	T
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3	184299391	.	C	G
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3	184675298	rs200084853	G	A
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3	184711811	.	G	T
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3	185198226	.	C	A
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3	185975648	.	C	T
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3	185997656	.	A	G
3	186024712	.	A	G
3	186257230	.	A	G
3	186272379	.	G	A
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3	186336332	.	C	A
3	186336426	.	G	C
3	186337728	.	A	C
3	186337728	.	A	G
3	186358335	.	C	A
3	186358380	.	T	G
3	186364116	.	C	T
3	186369068	.	C	T
3	186370373	.	T	C
3	186389438	.	G	T
3	186390587	.	AG	A
3	186395353	.	C	T
3	186445075	.	A	T
3	186450348	.	C	T
3	186456945	.	A	G
3	186457146	.	T	A
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3	186570963	.	G	A
3	186572160	.	G	C
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3	186790655	.	C	T
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3	187088580	.	C	T
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3	188327055	.	C	T
3	189038583	.	C	T
3	189582118	rs193921145	G	A
3	189689683	rs201411795	A	G

3	189689704	.	G	A
3	189702371	.	C	A
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3	190322045	.	G	A
3	190322117	.	G	A
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3	190578574	.	G	A
3	192053161	.	G	C
3	192053223	.	C	G
3	192635554	.	C	G
3	193002723	.	C	T
3	193019062	.	C	T
3	193019070	.	G	A
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3	193051649	.	G	A
3	193061769	.	C	T
3	193068920	.	T	G
3	193068990	.	C	A
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3	193081926	.	T	G
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3	193156262	.	A	G
3	193171930	.	T	C
3	193188765	.	C	T
3	193201770	rs78347033	C	T
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3	194118283	.	G	C
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3	195460044	.	C	A
3	195475834	.	T	C
3	195486123	rs149016812	G	C
3	195495946	.	C	A
3	195515843	rs200231524	C	A
3	195516821	.	C	A
3	195609117	rs540529215	C	T
3	195609124	.	G	C

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3	195622194	.	C	T
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3	195794479	rs374173098	T	A
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3	196242071	.	C	A
3	196387437	.	G	A
3	196387567	.	G	A
3	196388055	.	A	T
3	196434501	.	T	C
3	196541425	.	G	C
3	196663886	.	T	C
3	196666259	.	C	T
3	196666265	.	G	A
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3	196730790	.	G	A
3	196735711	.	C	T
3	196735756	rs189348794	C	A
3	196735829	rs138348131	G	C
3	196743089	.	G	A
3	196751228	.	C	T
3	196793589	.	A	G
3	196796089	.	C	G
3	196812488	.	C	G
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3	196842821	.	T	C
3	197024071	.	G	A
3	197238856	.	GC	G
3	197239235	.	C	A
3	197402060	.	T	G
3	197408744	.	T	G
3	197408753	.	G	A
3	197421249	.	C	T
3	197421291	.	G	A
3	197541847	.	A	G
3	197541883	.	G	A
3	197547227	.	C	A
3	197562642	.	C	A
3	197579432	.	C	A
3	197610457	.	A	C
3	197640791	.	C	CT
3	197687124	.	C	T
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3	197717464	.	C	T
3	197748342	.	C	G

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4	367578	.	A	G
4	367647	.	C	T
4	436244	.	C	G
4	436469	rs200042563	C	A
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4	438084	rs192147896	C	A
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4	952111	.	T	G
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4	955846	.	C	T
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4	1696499	.	A	G
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4	1834518	rs577048812	G	A
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4	1843265	.	C	T
4	1902448	.	C	G
4	1955179	.	G	C
4	1978291	.	G	C
4	1980427	.	C	T
4	1985196	.	C	G
4	1985672	.	G	A
4	1987532	.	C	G
4	2129850	.	T	A
4	2158560	.	C	G
4	2209766	.	AG	A
4	2307177	rs148277005	C	A
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4	2692595	.	A	T
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4	2746128	.	C	T
4	2747211	.	GC	G
4	2822378	.	A	T
4	2822469	.	A	C
4	2826432	.	C	T
4	2877735	.	C	G
4	2883752	.	C	T
4	2901077	.	C	T
4	2906605	.	G	C
4	2910273	.	C	T
4	2930204	.	G	A
4	2933322	.	C	G
4	2933349	.	A	G
4	2934152	.	C	T
4	2940579	.	C	A
4	2940915	.	C	T
4	2941260	.	AC	A
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4	2964865	.	C	A
4	2986269	.	A	G
4	2990498	.	C	G
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4	3021485	.	C	T
4	3021548	.	A	C
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4	3030988	.	G	C
4	3039158	.	G	C
4	3040173	.	A	G
4	3107105	.	C	T
4	3117936	rs376129083	C	A
4	3123027	.	C	A
4	3133439	.	C	T
4	3174077	.	T	G
4	3176498	.	C	T
4	3190764	.	T	C
4	3201500	.	C	T
4	3205852	.	C	G
4	3208334	.	C	T
4	3215719	.	C	T
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4	3318385	.	C	T
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4	3424251	.	G	A
4	3425281	.	G	C
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4	3449352	.	G	A
4	3450981	.	C	T
4	3768845	.	C	T
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4	3769406	.	C	CGCGCCG
4	3769409	.	G	A
4	4242096	.	G	A
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4	4283520	.	G	A
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4	4304207	.	A	C
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4	4322624	rs34623124	C	T
4	4322981	.	A	G
4	4425297	.	ACT	A
4	4543588	.	C	T
4	5170035	rs545537211	G	A
4	5624367	.	G	A
4	5857979	.	C	G
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4	5990081	.	C	A
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4	6292992	.	C	T

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4	6335375	.	T	C
4	6380266	.	C	T
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4	6578452	.	G	A
4	6594995	.	T	C
4	6595046	.	G	A
4	6595058	rs146983145	C	T
4	6616008	.	A	G
4	6622968	.	C	A
4	6642863	.	C	G
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4	6718551	.	A	C
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4	6863662	.	T	C
4	6863704	.	G	A
4	6864390	.	T	C
4	6882629	.	C	G
4	6925736	.	C	G
4	6998109	.	A	T
4	7016236	.	C	T
4	7026865	.	C	A
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4	7043059	.	G	A
4	7043073	.	G	T
4	7043140	.	C	T
4	7043291	.	A	G
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4	7044033	.	C	G
4	7044053	.	C	G
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4	7044242	rs377654678	C	T
4	7065826	.	C	T
4	7065908	.	GTTCTT	G
4	7069739	.	C	A
4	7435396	rs372450529	G	A
4	7436405	.	G	A
4	7640074	.	C	G
4	7655882	.	G	A
4	7691261	.	G	A
4	7705904	.	G	T
4	7705971	.	G	A
4	7726979	.	A	C
4	7741980	.	C	G
4	7857239	.	T	G
4	8029551	.	A	G

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4	8228821	.	GTC	G
4	8235139	.	A	G
4	8235140	.	T	C
4	8235145	.	C	T
4	8237175	.	G	A
4	8239350	.	G	A
4	8242570	.	T	C
4	8284229	rs375160977	G	A
4	8293223	.	C	T
4	8294060	rs548509936	G	A
4	8372661	.	A	T
4	8412010	.	G	C
4	8416093	.	C	A
4	8456482	.	G	A
4	8456485	.	T	C
4	8456512	.	A	C
4	8472881	.	T	G
4	8477522	rs371865161	C	A
4	8477713	.	G	T
4	8603053	.	T	C
4	8607739	.	G	T
4	8607758	.	A	G
4	8607901	.	G	A
4	8608504	.	C	T
4	8613837	.	C	A
4	8616097	.	T	G
4	9784658	rs145497708	C	G
4	9784702	.	C	T
4	9784774	.	G	A
4	10117829	.	C	T
4	10447409	.	C	G
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4	13601739	.	T	G
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4	13603662	.	G	C
4	13603749	.	C	T
4	13605750	.	T	G
4	13606596	.	T	C
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4	13611011	.	C	G
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4	13615263	.	A	T

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4	15444005	.	C	T
4	15482448	.	C	T
4	15511840	rs386833763	C	T
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4	15629537	.	C	T
4	15724524	rs577316730	A	T
4	15826576	.	G	A
4	15937667	.	A	C
4	15938042	.	C	A
4	15964122	.	G	A
4	15964441	.	A	C
4	15992889	.	G	T
4	16035036	.	G	C
4	16189941	.	A	G
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4	17609039	.	A	G
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4	17706675	.	T	C
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4	25366745	.	C	T
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4	36292142	rs570690508	C	A
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4	38775996	.	G	A
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4	38937384	rs140042546	G	T
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4	39449026	.	G	C
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4	40936513	.	T	C
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4	47548650	.	T	C
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4	47645207	.	T	A
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4	48542422	rs375591165	A	C
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4	54231819	.	T	G
4	54231901	.	G	T
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4	54343106	rs201804292	A	G
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4	57181875	.	C	G
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4	57182628	.	A	T
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4	69811044	.	G	T
4	69811131	.	T	G
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4	71555302	.	C	G
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4	71654556	.	A	G
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4	71840887	.	C	T
4	71844934	.	T	C
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4	72423508	.	G	A
4	72994302	.	G	T
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4	73012958	.	C	G
4	73013230	rs554338656	G	A
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4	74014598	.	C	G
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4	74319580	.	A	C
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4	74702967	.	C	G

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4	74863947	rs201539502	G	C
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4	74904119	.	C	G
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4	75937826	.	A	G
4	75937856	.	G	A
4	76440677	rs140233330	C	G
4	76489735	rs192831647	C	T
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4	76551042	.	A	T
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4	76794336	.	G	C
4	76797447	.	C	A
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4	79833114	.	C	T
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4	85717833	rs146467526	C	T
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4	152499122	.	G	T
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4	154512255	.	A	G
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4	154709723	.	G	C
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4	156135926	.	G	T
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4	156268946	.	T	C
4	156268949	rs200584811	C	T
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4	156277007	rs111666305	G	C
4	156278659	.	C	A
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4	156294540	rs187054827	G	T
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4	156715226	rs370902942	A	C
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4	156784882	.	CA	C
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4	158242668	.	G	C
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4	159894457	.	T	C
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4	170618526	.	C	T
4	170634335	.	G	A
4	170987588	.	G	A
4	170987618	.	A	C
4	171009572	.	C	T
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4	173873200	.	G	A

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4	175225402	.	C	T
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4	175709965	.	A	G
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4	175898435	.	C	CAT
4	175898652	.	G	C
4	175898720	.	T	A
4	175898770	.	T	TA
4	176561981	.	C	T
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4	177036997	.	TA	T
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4	177069454	.	A	G
4	177070973	.	C	G
4	177072990	.	A	G
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4	177142721	.	G	T
4	177241304	.	G	C
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4	178262766	.	A	G
4	178272601	rs548010583	G	A
4	178274825	.	A	G
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4	178358643	.	C	G
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4	184166648	.	A	C
4	184169900	.	G	T
4	184182560	.	C	T
4	184190144	.	T	C
4	184366180	.	C	G
4	184366719	.	A	G
4	184366753	.	C	T

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4	184367276	.	G	A
4	184367411	.	C	T
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4	184622942	.	T	C
4	184930668	.	A	C
4	184932266	rs375661411	C	T
4	184938408	.	T	G
4	185012499	.	G	A
4	185018505	.	G	A
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4	185038137	.	T	C
4	185138735	.	T	C
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4	185618899	.	A	G
4	185638327	.	G	C
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4	186066191	.	T	G
4	186066295	.	G	C
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4	186244844	.	C	G
4	186253821	.	G	T
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4	186291850	.	G	A
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4	186296876	.	C	A
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4	186326934	.	C	T
4	186326976	.	G	C
4	186334939	.	C	G
4	186339856	.	G	A
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4	186380341	.	T	C
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4	186544280	.	A	G

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4	187532803	.	A	G
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4	187539506	.	C	G
4	187540100	.	T	G
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4	187540739	.	T	G
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4	187541789	.	T	G
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4	187542605	.	A	G
4	187542819	.	C	T
4	187554941	.	C	T
4	187557336	.	A	C
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4	187629984	.	T	C
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5	174142	.	C	T
5	182152	.	C	T
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5	457023	.	G	A
5	459525	.	A	G
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5	644520	rs577972731	C	T
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5	653227	rs62330302	C	T
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5	864657	.	C	T
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5	1079541	.	G	C
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5	1474755	.	C	G
5	1474784	.	C	T
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5	2749694	.	T	G
5	2752752	.	C	G
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5	3599680	rs61745751	C	A
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5	5239291	.	T	C

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5	5441254	.	A	G
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5	5457756	.	G	A
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5	6742697	.	A	G
5	7414795	.	G	A
5	7520996	.	A	G
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5	7757691	.	T	C
5	7863068	rs545216318	T	A
5	7867230	.	C	T
5	7873485	.	G	A
5	7873557	.	C	CA
5	7895863	.	G	A
5	9052084	.	G	A
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5	9066676	.	G	C
5	9136644	.	T	G
5	9190423	.	A	C
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5	10227759	.	T	C
5	10227759	.	T	A
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5	10236710	.	C	A
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5	10250546	.	G	A
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5	10394194	.	A	G
5	10426622	.	G	A
5	10448406	.	C	T
5	10618537	rs372641307	C	G
5	11346508	.	A	G
5	11565116	.	A	G
5	11565125	.	C	T
5	13759026	.	C	A
5	13770958	.	G	A
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5	14690354	.	TG	T
5	14693033	.	C	T
5	15616095	.	A	G
5	15928278	rs550772953	G	A
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5	16465465	.	G	C
5	16477828	.	C	G
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5	16670640	.	C	T
5	16671001	.	C	A
5	16673870	.	T	G
5	16673910	.	C	T
5	16682063	rs370082246	G	T
5	16694506	.	C	G
5	16701408	.	C	G
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5	16780660	.	G	T
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5	21755948	.	T	C
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5	21760763	.	C	A
5	21765124	rs370639925	T	C
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5	23526704	.	A	G
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5	26885963	.	C	T
5	26889959	.	C	T
5	31424569	.	C	T
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5	31534474	.	T	G
5	31983709	.	C	G
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5	32052738	.	T	G

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5	32074273	.	C	A
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5	32089756	.	C	T
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5	32091261	rs550007301	TAGA	T
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5	32173977	.	G	A
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5	32400179	.	A	T
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5	33457453	.	A	G
5	33463911	.	G	C
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5	33546231	.	C	G
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5	33616162	.	C	T
5	33683152	.	C	G
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5	33937201	.	T	A
5	33937987	rs370540768	A	G
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5	35026525	.	T	C
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5	35691157	.	G	C

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5	35957484	.	C	G
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5	36257086	.	A	G
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5	37230986	.	A	C
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5	39126166	.	T	C
5	39202659	.	T	A
5	39202875	.	G	A
5	39202995	.	A	C
5	39376988	rs3733801	C	A
5	39383003	rs368860640	C	T
5	39383046	.	C	T
5	39389988	.	T	C
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5	40730440	.	C	T
5	40764715	.	G	A
5	40764720	.	C	T
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5	40843668	.	A	G
5	40843670	.	G	T
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5	40854139	.	C	T
5	40950086	.	G	T
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5	40999820	.	C	T
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5	41018873	.	A	G
5	41018987	.	G	A
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5	41155126	.	G	C
5	41159208	.	C	A
5	41201715	.	C	T
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5	41382348	.	A	G
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5	41917313	.	C	G
5	41934357	.	T	C

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5	42799555	.	A	G
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5	43161736	.	C	T
5	43161747	.	T	A
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5	43175132	.	A	G
5	43277287	.	G	A
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5	43280392	.	C	A
5	43280680	.	A	G
5	43492892	.	T	G
5	43494694	.	T	C
5	43506357	.	T	C
5	43509353	.	C	T
5	43509392	.	AC	A
5	43644774	.	T	C
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5	43700237	.	G	A
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5	44812023	.	C	T
5	44812115	.	A	G
5	44813277	.	G	A
5	44813309	.	C	T
5	45645701	.	C	T
5	49723986	.	G	T
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5	52204836	.	G	A
5	52221136	.	A	G
5	52225479	.	T	C
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5	52397333	.	G	A
5	52778782	.	A	T
5	52779361	.	C	T
5	52779951	.	G	C
5	52780952	.	G	C
5	52942174	rs121908985	TG	T
5	53409225	.	C	T
5	53814428	rs201253342	C	G
5	53814558	.	G	T

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5	54404215	.	C	T
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5	54585244	.	A	C
5	54645457	.	G	T
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5	54721861	.	G	A
5	54923741	.	G	A
5	54929625	rs184922428	G	C
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5	55077783	.	G	A
5	55077810	.	G	A
5	55195903	.	A	G
5	55202050	.	G	T
5	55202086	.	T	C
5	55212496	.	G	A
5	55256341	.	C	A
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5	55407539	.	G	C
5	55412472	.	G	A
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5	56170884	.	G	A
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5	56231534	.	C	A
5	56233417	.	T	C
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5	57755725	.	G	A
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5	59982825	.	C	A
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5	60831346	.	C	T
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5	60999937	rs146952054	T	A

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5	61694699	.	A	G
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5	61779960	.	CAA	C
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5	66396356	rs578052517	G	A
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5	66438032	.	C	G
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5	68581187	.	C	A
5	68595920	.	C	T
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5	71757081	.	G	T
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5	132535085	.	G	A
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5	133695622	.	A	G
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5	133712358	.	A	G
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5	134191147	.	C	T
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5	137734070	rs577772389	T	C

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5	139838295	.	C	T
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5	140348656	.	C	G
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5	140856263	.	G	A
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5	140857766	.	C	T
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5	145613223	.	G	T
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5	145634602	.	A	C
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5	149576713	.	C	G
5	149585147	rs142285255	G	A
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5	149907687	rs150461859	G	A
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5	150924861	.	C	T
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5	150946158	rs200161645	C	T
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5	150947207	.	T	C
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5	154210440	.	C	T
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5	154278758	.	C	A
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5	154394575	.	C	T
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5	156565853	.	C	T
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5	156635902	.	G	C
5	156649873	.	C	T

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5	157181986	.	G	A
5	157182235	rs374302780	G	A
5	157214937	.	G	A
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5	157240169	.	T	C
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5	158204508	.	G	A
5	158250220	.	C	G
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5	159682583	.	A	C
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5	162909787	.	T	C
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5	167626992	.	C	G
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5	167896013	.	T	G
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5	170632555	.	C	G
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5	176008363	.	C	T
5	176011567	.	C	G
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6	30521289	.	G	A
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6	30653744	.	C	T
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6	44218189	.	G	C
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6	44222858	rs200469836	T	G
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6	44921153	.	A	G
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6	46108924	.	G	A
6	46129466	.	G	A
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6	46630234	.	C	T
6	46637894	.	T	C
6	46656352	.	G	T
6	46657412	.	T	A
6	46658495	.	C	T
6	46659974	rs376058108	A	G
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6	46660679	.	T	C
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6	46766841	.	A	G
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6	46977894	rs115292676	C	A

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6	49416556	rs188766510	C	G
6	49423893	.	C	T
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6	51774153	.	C	T
6	51908476	.	A	G
6	52052570	rs148704956	A	G
6	52101808	.	G	C
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6	52303273	.	C	G

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6	54792343	.	T	G
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7	2748233	rs150929801	T	C
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7	6088463	.	C	A
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7	7571049	.	C	T
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7	7625434	.	T	G
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7	12420284	.	A	C
7	12428758	rs199964998	G	T
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7	12644179	.	A	G
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7	12675669	.	G	A
7	12675744	.	G	A
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7	16649281	.	C	T
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7	20199337	.	C	A
7	20199614	rs562003002	G	A
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7	23224774	.	G	T
7	23224775	.	G	T
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7	23740440	rs142712999	C	G
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7	30911875	rs377218227	A	G
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7	100552738	rs79874934	C	T
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7	100608370	rs73714276	A	C
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7	100608759	.	A	G
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7	100635225	.	C	T
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7	100676405	.	A	C
7	100676569	.	C	G
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7	131082098	.	C	T
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7	131128319	.	G	T
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7	133502296	.	A	G
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7	133824232	.	A	C

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7	134882803	.	C	T
7	134882829	.	C	A
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7	134896190	rs142902910	G	C
7	134896194	.	A	G
7	134925368	.	G	A
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7	137798499	.	C	T
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7	138255645	rs377565012	C	T
7	138266496	.	C	G
7	138356853	.	C	T
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7	142983602	.	C	A
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8	42612071	rs199650282	T	G
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8	95897757	rs555383126	A	C
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8	101163632	rs200510163	T	A
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8	101624315	.	A	G
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8	125115409	rs191140809	C	A

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8	125463260	.	A	G
8	125463772	.	G	A
8	125463896	.	C	G
8	125463973	.	C	T
8	125487471	.	T	C
8	125499258	.	G	C
8	125499301	.	A	C
8	125499506	rs369274872	G	A
8	125499877	.	A	G
8	125500872	rs200212435	T	C
8	125528175	.	G	GC
8	125559320	.	G	A
8	125568622	.	C	T
8	125577981	.	C	A
8	125579349	rs572289506	G	A
8	125580771	.	C	T
8	125988958	.	C	T
8	125989552	.	A	G
8	125989895	.	A	G
8	126017925	.	A	G
8	126040885	rs566930626	G	A
8	126075827	.	G	A
8	126079935	.	G	A
8	126094654	.	GCA	G
8	126096083	.	A	G
8	126114580	.	G	C
8	126114710	.	G	C
8	126114710	.	G	T
8	126448567	.	G	A
8	127569373	.	G	A
8	127569399	.	T	C
8	127569547	.	GC	G
8	127569551	rs147489088	G	T
8	128750607	rs61752959	G	C
8	128750972	.	C	T
8	128750972	.	C	A
8	128752828	.	C	G
8	128753052	.	G	T
8	128753120	.	G	T
8	131092215	.	T	A
8	131130785	.	C	T
8	131140248	.	C	T
8	131181261	.	T	C
8	131191534	.	A	G
8	131191592	.	G	A
8	131199519	.	G	A
8	131200390	.	A	G

8	131414132	.	G	A
8	131916248	.	C	A
8	132052101	.	G	A
8	132957095	.	G	A
8	132996455	.	G	T
8	133036969	.	G	A
8	133099908	.	C	A
8	133100118	.	A	G
8	133100138	.	G	C
8	133107765	.	C	T
8	133146600	.	G	A
8	133153468	.	G	A
8	133627287	.	T	C
8	133764160	.	C	G
8	133764181	rs368960025	G	C
8	133806759	.	A	C
8	133836247	.	A	G
8	133883727	.	C	T
8	133894742	.	T	A
8	134034345	.	T	G
8	134034366	rs121912650	G	A
8	134225230	.	G	C
8	134237732	.	G	C
8	134239811	.	C	G
8	134260991	.	C	T
8	134269098	.	GTTGTT	G
8	134475691	.	G	C
8	134478331	.	C	A
8	135521906	.	A	G
8	135577661	.	T	C
8	135614504	.	C	A
8	135614828	.	G	T
8	135622803	.	G	C
8	135669866	.	A	G
8	139163510	.	G	A
8	139164497	.	T	C
8	139165018	.	T	C
8	139180237	.	T	C
8	139190875	.	G	A
8	139277972	.	C	T
8	139323122	.	A	T
8	139636013	.	C	T
8	139668139	.	C	T
8	139696706	.	G	T
8	139703099	.	C	T
8	139767429	.	G	A
8	139767724	.	C	T
8	139825193	.	G	A

8	141524477	.	G	C
8	141711102	.	A	G
8	141799620	.	G	A
8	141856768	.	C	T
8	142186724	.	G	A
8	142202661	.	G	A
8	142222637	.	CG	C
8	142481264	.	G	A
8	142505437	.	C	A
8	142505474	.	C	T
8	143365774	.	C	T
8	143381888	.	C	G
8	143425638	.	T	C
8	143436021	.	G	C
8	143562701	.	T	C
8	143563035	.	G	A
8	143569754	.	G	A
8	143569790	.	C	T
8	143572146	.	A	G
8	143694672	.	TCTC	T
8	143695011	.	C	T
8	143763464	.	G	A
8	143763488	.	G	GC
8	143822587	.	G	C
8	143823340	.	C	T
8	144102871	rs113626160	C	G
8	144103075	rs531928812	G	A
8	144358388	.	C	T
8	144358403	.	C	T
8	144358793	.	A	G
8	144358871	.	G	C
8	144378540	.	C	G
8	144378639	.	A	G
8	144378695	.	C	G
8	144399961	.	G	T
8	144403514	.	C	T
8	144406269	.	C	G
8	144413472	.	T	A
8	144462882	.	C	T
8	144620186	.	G	A
8	144620220	.	G	T
8	144620824	.	C	A
8	144621194	.	CCTGTCT	C
8	144643172	.	G	A
8	144645060	.	C	T
8	144652204	.	G	A
8	144652667	.	C	A
8	144657009	.	CAG	C

8	144657596	.	C	A
8	144657683	.	C	T
8	144658276	.	T	A
8	144659299	.	G	T
8	144659309	.	G	A
8	144660103	.	G	T
8	144671742	rs370356009	G	T
8	144671914	.	A	C
8	144672223	.	A	G
8	144672278	.	G	T
8	144733557	.	T	A
8	144733594	.	G	GC
8	144776649	.	C	A
8	144801529	.	G	T
8	144803959	.	C	T
8	144804348	.	A	G
8	144810251	rs137854439	C	T
8	144812548	.	G	A
8	144940190	.	C	A
8	144940994	.	T	C
8	144941109	.	C	T
8	144942062	.	C	T
8	144942219	.	CG	C
8	144942471	rs200748786	C	A
8	144943445	.	C	T
8	144945210	.	C	T
8	144945413	.	G	A
8	144945486	.	C	T
8	144946436	.	A	T
8	144946577	.	T	A
8	145058795	.	G	T
8	145059089	.	C	A
8	145060050	.	A	C
8	145065899	.	C	T
8	145066720	.	C	T
8	145095729	.	C	T
8	145095913	.	G	A
8	145101553	.	A	G
8	145101604	.	T	C
8	145111298	rs148181675	C	CG
8	145138650	.	C	T
8	145139481	.	C	T
8	145151112	.	G	A
8	145151590	.	G	A
8	145154499	.	C	T
8	145154618	.	G	A
8	145161338	.	G	T
8	145161552	.	G	A

8	145235109	.	C	T
8	145278099	.	T	C
8	145540908	.	C	T
8	145619106	.	G	A
8	145619500	.	C	G
8	145620364	.	A	G
8	145623707	.	G	A
8	145623971	.	C	G
8	145638259	.	G	A
8	145650145	.	C	A
8	145651157	.	T	C
8	145652363	.	C	G
8	145657667	.	C	T
8	145660237	.	CG	C
8	145661748	rs546911071	C	T
8	145663934	.	G	A
8	145667752	.	G	C
8	145668529	.	T	G
8	145693138	.	G	C
8	145694968	.	C	T
8	145694989	.	C	T
8	145700574	.	C	T
8	145735782	.	TG	T
8	145736218	.	G	A
8	145737678	.	C	T
8	145748424	.	C	T
8	145763173	.	A	G
8	145770884	.	C	T
8	145770924	.	A	G
8	145771085	.	G	A
8	145773802	.	C	T
8	145947768	.	A	C
8	145948015	.	T	C
8	145980083	.	G	A
8	146017203	rs372308540	C	T
8	146033482	.	A	G
8	146033602	.	G	T
8	146054921	.	T	C
8	146067354	rs138843934	C	G
8	146067360	.	A	G
8	146067591	.	T	C
8	146076594	.	C	G
8	146171484	.	C	T
8	146278176	.	CAAAAG	C
9	214540	.	C	A
9	214585	.	C	G
9	214587	.	C	CGCA
9	214859	.	C	CCG

9	215394	.	C	A
9	711743	.	C	A
9	712246	rs373644920	G	A
9	740857	.	G	T
9	742374	.	A	C
9	841858	.	T	C
9	968005	.	C	A
9	990326	.	C	G
9	1056222	rs140044845	G	A
9	1056270	.	C	T
9	1056869	.	G	A
9	1057189	.	ACT	A
9	2729568	.	C	A
9	2811507	.	G	A
9	2828766	.	G	A
9	2834154	.	T	C
9	2837299	.	T	A
9	3346715	.	T	A
9	4118513	.	G	T
9	4564416	.	C	T
9	4576087	.	C	T
9	4583168	.	C	G
9	4604236	.	C	T
9	4618075	.	C	G
9	4663208	.	G	A
9	4823565	.	A	G
9	4834250	.	G	A
9	5065024	.	T	G
9	5080608	.	T	A
9	5080639	rs201992086	C	T
9	5123094	.	C	A
9	5185472	.	A	G
9	5231618	.	G	T
9	5233723	.	T	C
9	5233765	.	C	T
9	5300102	.	C	G
9	5304552	.	A	G
9	5335273	.	C	A
9	5335339	.	G	C
9	5335339	.	G	A
9	5462917	.	T	C
9	5534927	.	C	G
9	5549487	rs186238681	G	A
9	5720701	.	A	G
9	5745937	.	G	A
9	5753236	.	C	T
9	5757377	.	C	G
9	5765451	.	C	T

9	5772946	.	A	G
9	5773972	.	C	T
9	5787533	.	G	C
9	5801316	.	A	G
9	5813009	.	C	T
9	5830856	rs141447627	C	G
9	5919826	.	G	C
9	5919931	.	G	A
9	5924813	.	C	A
9	5929059	.	G	A
9	5929140	.	C	T
9	5968266	.	G	C
9	5969078	.	C	G
9	6007207	.	G	C
9	6328740	.	G	A
9	6328761	.	C	A
9	6328777	.	A	C
9	6328903	.	C	T
9	6328983	.	T	C
9	6413501	.	A	G
9	6475483	.	C	T
9	6554727	.	G	T
9	6793114	.	T	A
9	7011703	.	C	T
9	7011869	.	C	T
9	7128211	.	G	C
9	7174572	.	G	A
9	7798577	.	A	G
9	7799559	.	A	G
9	7799568	.	A	G
9	7799641	rs149537395	G	C
9	8331703	.	A	C
9	8338973	.	C	G
9	8340391	.	G	T
9	8375990	rs142960593	C	A
9	8484269	.	C	T
9	8484323	.	T	G
9	8507326	.	T	C
9	8633389	.	C	A
9	12694228	.	C	T
9	12702277	.	A	AGGATG
9	12821608	.	T	C
9	13122139	.	C	A
9	13126515	.	CT	C
9	13139986	.	T	A
9	13221385	.	C	T
9	13223643	.	C	G
9	14619019	.	G	A

9	14812820	.	G	C
9	14846050	.	C	T
9	14857661	.	A	G
9	15185321	rs542244248	G	C
9	15191220	.	G	T
9	15211264	.	T	A
9	15211326	.	G	T
9	15211381	.	A	C
9	15214153	.	C	G
9	15214222	.	T	A
9	15423954	.	T	C
9	15423968	.	GA	G
9	15571711	.	G	A
9	15578916	.	A	G
9	15727903	.	T	G
9	15727996	.	G	C
9	15744535	.	C	G
9	15745591	.	G	T
9	15777607	.	C	T
9	15784567	.	CG	C
9	15874628	.	GC	G
9	15874630	.	T	C
9	15920326	.	T	G
9	16419549	rs142906838	C	G
9	16436307	.	G	A
9	16437276	rs114964332	G	A
9	16437381	.	C	T
9	16437489	.	T	C
9	16583070	.	G	A
9	16727934	.	C	T
9	16727950	.	C	G
9	17298224	.	G	C
9	17309224	.	G	T
9	17342408	.	T	A
9	17366709	.	A	G
9	17409401	.	C	G
9	17416079	.	G	T
9	17462938	.	C	G
9	17466813	.	A	T
9	17484408	.	C	T
9	18622269	.	G	A
9	18662050	.	A	T
9	18675878	.	C	A
9	18684731	rs149221350	G	A
9	18707004	.	G	A
9	18721572	.	A	T
9	18721621	.	C	T
9	18777336	.	G	A

9	18777337	.	A	T
9	18829925	.	C	T
9	18908499	.	C	A
9	18928148	.	A	T
9	18928625	.	G	A
9	18941742	.	T	C
9	19120908	.	G	A
9	19126181	.	C	G
9	19316789	.	G	T
9	19324467	.	G	T
9	19324481	.	A	AT
9	19350829	.	G	C
9	19372158	.	C	G
9	19379469	.	ATT	A
9	19380190	.	T	C
9	19576949	rs2383101	T	A
9	20764891	.	T	C
9	20820369	.	C	T
9	20821040	.	C	T
9	20862655	rs374337191	C	A
9	20944624	.	A	C
9	20944661	.	C	G
9	20948914	.	G	A
9	20948925	.	C	A
9	20981636	.	T	C
9	20986383	.	C	T
9	21008038	.	G	C
9	21011609	rs373164403	G	A
9	21077382	.	C	A
9	21077445	.	G	A
9	21409249	rs566042582	A	G
9	21409666	.	G	C
9	21854841	.	A	G
9	21971024	.	G	C
9	22451471	.	C	T
9	22451696	.	T	A
9	22451709	.	G	C
9	22451768	.	C	T
9	23704972	.	A	C
9	24544238	.	G	A
9	24544982	.	A	G
9	26884839	.	C	A
9	26996417	.	A	G
9	26996499	.	T	C
9	27044766	rs561912676	C	A
9	27047335	.	C	T
9	27055621	.	C	A
9	27213521	.	G	A

9	27213567	.	G	A
9	27284871	.	C	G
9	27359094	.	T	G
9	27524436	.	C	G
9	27524720	.	TGGAG	T
9	27524879	.	C	G
9	27566849	rs145418675	C	CTT
9	32418196	.	G	A
9	32418488	.	G	A
9	32430504	.	C	T
9	32457200	.	C	A
9	32467850	.	C	A
9	32487948	.	G	A
9	32489422	.	G	A
9	32491363	.	T	C
9	32492484	.	A	G
9	32500924	.	A	C
9	32572921	.	G	C
9	32572963	.	C	A
9	32984709	.	C	CA
9	33120508	.	C	T
9	33120583	.	G	A
9	33135344	.	C	T
9	33248445	.	G	C
9	33256809	.	A	G
9	33256846	.	C	T
9	33261147	.	C	A
9	33290581	.	C	T
9	33351678	.	G	A
9	33364030	.	A	G
9	33367518	.	A	T
9	33466598	rs199904076	T	C
9	33467248	.	G	A
9	33467487	.	G	C
9	33468513	.	G	C
9	33472113	.	C	G
9	33944385	.	C	T
9	33971732	.	T	TA
9	34017056	.	C	T
9	34017099	rs566017101	T	G
9	34088427	.	G	A
9	34096727	.	T	C
9	34125160	.	C	T
9	34241223	.	A	G
9	34241991	.	C	T
9	34250746	.	T	C
9	34257471	.	C	A
9	34269343	.	A	T

9	34271912	.	C	A
9	34306345	.	G	C
9	34371204	rs369935084	C	T
9	34371984	.	T	A
9	34405910	.	T	C
9	34500755	.	C	T
9	34500756	.	G	T
9	34506639	.	C	T
9	34622062	.	T	C
9	34635664	.	C	G
9	34635739	.	C	T
9	34649520	rs111033806	G	A
9	34657140	.	C	T
9	34690219	.	ACC	A
9	35042945	.	G	C
9	35043435	.	C	T
9	35044150	.	G	A
9	35044594	rs180766598	C	A
9	35044637	.	G	T
9	35044686	.	C	A
9	35045031	.	C	T
9	35045648	.	C	T
9	35075678	.	TG	T
9	35093515	.	G	T
9	35094225	.	G	A
9	35100674	.	G	A
9	35100943	.	C	G
9	35105237	rs374002324	C	T
9	35376121	.	A	C
9	35377554	.	C	T
9	35380594	.	G	A
9	35396926	.	A	G
9	35398218	.	T	C
9	35399444	.	A	G
9	35399661	.	G	C
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9	35563231	.	G	A
9	35607361	.	C	G
9	35609069	.	C	G
9	35609069	.	C	T
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9	35609651	.	A	C
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9	35616590	.	TACTC	T
9	35618083	.	C	T
9	35660996	.	GAC	G
9	35662539	.	G	C
9	35663318	rs368241522	C	T

9	35664421	.	T	G
9	35676076	.	C	A
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9	35706809	.	C	A
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9	35714761	.	C	A
9	35714816	.	C	A
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9	35741872	.	G	A
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9	35753759	.	CAG	C
9	35792577	.	C	T
9	35819991	.	TAG	T
9	35869833	.	C	T
9	35870134	.	G	A
9	35906474	.	CG	C
9	35957464	.	G	T
9	36058845	.	T	C
9	36083443	.	C	G
9	36083485	.	C	A
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9	36108102	.	G	A
9	36117042	.	T	G
9	36123007	.	G	T
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9	36170323	.	G	A
9	36170370	.	G	A
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9	36219883	.	A	C
9	36222803	.	T	C
9	36222977	.	C	A
9	36222989	.	G	GA
9	36227338	.	GAT	G
9	36651812	.	C	T
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9	37518409	.	C	T
9	37518423	.	T	TA

9	37522944	.	C	T
9	37531908	.	G	C
9	37537586	.	C	T
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9	37740312	.	A	C
9	37744629	.	GCTA	G
9	37745325	.	C	T
9	37745411	.	G	T
9	37746069	.	CG	C
9	37746179	rs201797937	C	T
9	37746324	.	TA	T
9	37746410	rs199593687	C	A
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9	37746504	.	A	G
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9	78965765	.	T	G

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9	108308676	.	A	G
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9	111727756	.	T	G
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9	111795620	.	G	A
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9	113208273	.	T	C
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9	114247001	.	G	A
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9	114538203	rs140472968	C	G
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9	116346655	.	G	A
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9	120476277	rs199948408	A	C
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10	126370867	.	G	T
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10	127555742	.	C	T
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10	127569243	rs369691673	G	A
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10	128836030	.	C	T
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10	129137287	.	T	C
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10	129217930	.	G	C
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10	135053296	.	G	T
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11	210653	.	A	T
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11	212729	.	G	T
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11	233049	rs1734492	G	A
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11	291099	.	G	C
11	292938	.	C	T
11	293218	rs375907457	C	A
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11	298640	.	A	C
11	376262	.	A	G
11	397546	.	G	A
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11	405979	.	C	T
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11	428632	.	A	T
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11	558208	.	G	A

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11	605628	.	C	T
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11	608508	rs376527396	CGCTCTGGG	C
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11	612770	rs375003348	C	G
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11	621225	.	G	C
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11	640566	.	G	A
11	700208	.	G	C
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11	702990	.	G	C
11	703002	.	C	T
11	703142	.	A	C
11	722152	.	G	A
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11	800575	.	G	A
11	800578	.	A	G
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11	1028898	rs372402547	A	G
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11	1082628	.	A	G
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11	2424345	rs200528668	G	A

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11	2946305	.	G	A
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11	2975838	.	T	G
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11	2999564	.	T	G
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11	3800422	.	T	C
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11	4567136	.	A	G
11	4592772	.	A	T
11	4608139	.	A	G
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11	4790474	rs11033793	T	G
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11	4824844	.	A	T
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11	4842824	.	A	G
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11	4843242	.	C	A
11	4843384	.	T	A
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11	5172872	.	G	A
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11	5221347	.	C	G
11	5221828	.	A	G
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11	5776054	.	G	C
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11	6806833	.	T	G
11	6806876	.	G	C
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11	7949561	rs573926485	A	G
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11	126306742	.	C	T
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11	128426299	.	G	T
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11	128709625	.	T	C

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11	128844739	.	C	G
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11	129725777	.	G	A
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11	133790333	rs369696850	G	T
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11	133790946	.	A	G
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12	319002	.	CG	C
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12	420091	rs545445538	C	T
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12	1039269	.	A	C
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12	1399136	.	G	A
12	1481117	.	C	T
12	1517396	.	A	G
12	1553738	rs145292132	C	G
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12	1755098	.	G	A
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12	1943573	.	C	T
12	2055430	.	A	T
12	2062204	rs2470449	C	A
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12	2062417	.	G	A
12	2077052	.	T	C
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12	3392278	.	C	T
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12	4719371	.	T	TA
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12	4737344	.	A	G
12	4737944	.	G	A
12	4747304	.	T	C
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12	4854629	.	C	T
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12	4920787	.	C	T
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12	5603787	.	G	A
12	5853366	.	G	T
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12	6601514	rs141081788	C	T
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12	6602026	.	A	G
12	6602124	.	T	C
12	6619887	.	A	G
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12	6623647	.	A	T
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12	6635274	rs10849482	G	C
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12	6637149	.	C	T
12	6637163	.	C	G
12	6637995	.	G	T
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12	6638759	rs61731148	G	A
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12	6705203	.	C	T
12	6709799	.	C	T
12	6756010	.	G	C
12	6762497	.	C	T
12	6787394	.	C	A
12	6804596	.	C	T
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12	6887549	rs182106657	A	G
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12	6928482	.	G	GT
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12	6954817	.	G	A
12	6969343	.	G	A
12	6973351	.	C	T
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12	7015768	.	C	A
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12	7028772	rs149156876	C	A
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12	7045962	.	C	G
12	7046114	.	G	A
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12	7050142	.	C	G
12	7055072	.	T	A
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12	7172428	.	C	A
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12	7301623	.	G	A
12	7356101	.	C	T
12	7459322	.	T	C
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12	7526028	.	C	A
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12	7922820	.	A	G
12	7922848	.	C	G
12	7923071	ss1388051399	A	G
12	7923077	.	G	T
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12	8926075	.	G	A
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12	9225428	.	C	T
12	9261993	.	T	G
12	9305535	.	A	G
12	9307247	ss1388095990	G	C
12	9309794	.	A	C
12	9310431	.	C	T
12	9313647	.	C	G
12	9313660	.	T	G
12	9315232	.	C	G
12	9316728	.	C	T
12	9317898	.	G	A
12	9322066	rs369857112	G	A
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12	9345170	.	C	T
12	9346804	.	T	G
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12	9752363	.	C	G
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12	9840659	.	C	T
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12	9913391	.	G	T
12	9984912	.	A	T

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12	10541382	.	G	A
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12	10954352	.	A	T
12	10954524	.	G	A
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12	10955036	.	T	A
12	10959207	.	T	G
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12	10962349	.	A	T
12	10978202	.	C	T
12	10978444	.	A	C
12	10999707	.	CT	C
12	11091403	.	A	T
12	11091541	rs201006108	C	T
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12	11139432	.	A	G
12	11149690	.	A	T
12	11183231	.	AG	A
12	11183321	.	T	G
12	11183671	.	C	G
12	11286099	.	C	T
12	11338821	.	GA	G
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12	11992203	.	C	G
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12	12483739	.	G	A
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12	12790582	.	A	G
12	12790625	.	A	G
12	12814220	.	G	A
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12	12814739	.	G	A
12	12870945	.	C	T
12	12978992	.	C	T
12	12980230	.	T	C
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12	13061589	.	G	T
12	13061628	.	G	A
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12	13061973	.	G	A
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12	13366617	.	G	A
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12	14577321	.	G	A
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12	14613915	.	T	A
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12	14660041	.	A	AG
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12	14827574	.	T	A
12	14827673	.	C	T
12	14836191	.	G	C
12	14993624	.	C	T
12	14993663	.	T	C
12	14994015	rs182981694	C	A
12	14994038	.	T	C
12	15070168	.	C	G
12	15073895	.	G	A
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12	15100847	.	A	C
12	15132123	.	G	A
12	15262385	rs199919898	T	A
12	15661643	.	C	T
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12	16109930	.	A	C
12	16135245	.	T	C
12	16135304	.	T	A
12	16135356	.	T	C
12	16347308	rs3942536	G	C
12	16516970	.	C	G

12	18234130	.	C	T
12	18234150	rs200194658	A	C
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12	18552765	.	G	T
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12	20523148	.	G	T
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12	21176195	.	A	C
12	21205146	.	C	A
12	21427437	.	C	A
12	21445173	.	T	C
12	21448600	.	A	T
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12	21526322	.	C	A
12	21626535	.	C	T
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12	25243027	.	G	C
12	25249944	.	C	T
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12	25263152	.	G	A
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12	25297592	.	A	G
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12	26221716	.	T	G
12	26540413	.	G	A
12	26568376	.	G	A
12	26596477	.	T	C
12	26640106	.	C	T
12	26714877	.	G	T
12	26755407	.	G	T
12	26806974	.	A	G
12	26835542	.	T	C
12	26868330	rs199827981	A	G
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12	27070347	.	C	T
12	27070639	.	C	T
12	27077355	.	T	C
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12	29604403	.	A	G
12	29630039	.	A	G
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12	30822132	.	T	A
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12	30867943	.	C	T
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12	30868004	rs376100214	C	T
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12	31540544	.	T	A
12	31586132	rs369424650	C	T
12	31850343	.	G	T
12	31862264	.	C	G
12	32133993	.	C	T
12	32134221	.	C	G
12	32134535	.	A	G
12	32134578	rs147896922	C	T
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12	32135471	.	A	G
12	32136197	.	G	C
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12	32138040	.	A	C
12	32458910	rs374149547	G	A
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12	33532810	rs142586141	G	A

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12	53686703	rs1056685	G	C
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12	55524555	rs373940747	C	A
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12	55725916	.	T	A
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12	56994873	.	G	A
12	56995140	.	G	A
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12	57397542	.	C	T
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12	62954307	.	A	G
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12	117365856	.	A	T
12	117423040	rs138718240	G	C
12	117448195	rs371138207	C	T
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12	118480721	rs115911603	T	G
12	118480960	.	G	C
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12	118517413	.	T	G
12	118599598	.	A	T
12	119563215	rs550204730	G	A
12	119583312	.	A	G
12	119591394	.	C	T
12	119591420	.	C	A
12	119866517	.	G	T
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12	119926672	.	G	C
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12	120584888	.	T	C
12	120589159	.	C	T
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12	120608125	.	C	T
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12	120650326	.	A	G
12	120653004	.	T	C
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12	120762817	.	T	A
12	120763718	.	T	G
12	120763776	.	G	A
12	120802533	.	C	T
12	120884134	.	C	G
12	120903486	rs372846202	C	T
12	120934420	.	C	G
12	120941658	.	C	T
12	120972697	.	C	T
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12	121004642	.	A	G
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12	121458837	.	C	G
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12	121469397	.	G	C
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12	121605364	.	A	C
12	121613232	.	C	G
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12	121858545	.	C	T
12	121861273	.	T	C
12	121861372	.	A	C
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12	122091108	.	C	T
12	122190068	.	C	T
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12	122217517	rs551990941	C	T
12	122277702	.	C	T
12	122277928	.	G	C
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12	122372199	.	G	A
12	122392093	.	C	G
12	122395016	.	G	C
12	122396995	.	A	G
12	122399962	.	C	T
12	122399962	.	C	G
12	122406030	.	C	A
12	122406050	.	G	A
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12	122413556	.	A	C
12	122437632	.	T	C
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12	123031205	.	T	A
12	123032014	.	C	G
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12	123064477	rs199590387	C	T
12	123068947	.	C	T
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12	123107109	.	C	T
12	123187277	rs150040336	G	C
12	123187671	.	A	C
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12	123276617	.	A	G
12	123282676	.	T	A
12	123285816	.	G	T
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12	123880918	rs148212570	G	T
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12	124144132	.	G	A
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12	124221752	.	C	CA
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12	124268594	rs201397099	T	C
12	124272433	.	C	T
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12	124330558	.	C	T
12	124330627	.	T	C
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12	124356108	.	A	G
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12	124366221	.	T	C

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12	124395182	.	G	C
12	124398968	.	C	G
12	124401027	rs61745785	C	G
12	124412986	.	T	C
12	124413069	.	C	T
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12	124414253	rs369076346	C	T
12	124414985	rs376425136	C	T
12	124416220	.	T	G
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12	125438495	rs370040418	C	T
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12	132512791	rs375537617	C	T
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12	133306832	.	G	T
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13	20426151	.	T	A
13	20426223	.	T	TA
13	20567838	.	A	T
13	20577148	.	A	T
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13	21383991	.	A	G
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13	21563416	.	G	A
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13	21619952	.	G	A
13	21732128	.	G	T
13	21742187	.	T	C
13	21751273	.	C	T
13	21751294	.	C	T
13	21957114	.	C	G
13	22084197	.	A	T
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13	23905777	.	C	CA
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13	24798564	rs201566338	G	T
13	24823793	.	A	T
13	24871789	.	T	A
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13	25030507	rs370832166	A	G
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13	25274998	.	A	T
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13	25341499	.	T	G
13	25353825	rs199972596	A	C
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13	25671448	.	A	G
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13	26620737	rs150368053	C	A

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13	28624264	.	A	C
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13	29287239	.	T	C
13	29287281	rs201432125	G	A
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13	29287326	rs149316432	C	T
13	29599476	rs376775458	A	C
13	29600630	rs200101021	A	C
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13	31195321	.	G	A
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13	31318214	rs375032484	G	A
13	31326242	.	G	A
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13	31722209	.	C	T

13	31729759	.	G	T
13	31729784	.	G	A
13	31848701	rs367648804	A	G
13	31860865	rs111914180	G	A
13	31860892	.	T	G
13	31897956	.	C	T
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13	32365987	rs140693726	G	T
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13	32376428	.	TA	T
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13	32914893	rs80359584	ATAACT	A
13	32918775	.	A	G
13	32930591	.	A	G
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13	32950876	rs80359129	G	T
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13	33016584	.	A	G
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13	33703216	.	G	A
13	33703575	rs201148891	T	G
13	33703736	.	C	T
13	36382372	rs575565299	C	T
13	36767948	.	A	C
13	36767951	.	T	C
13	36776133	.	G	T
13	36801496	.	C	G
13	36900735	.	T	G
13	36905664	.	T	C
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13	38156598	.	T	A
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13	43930240	rs570720118	C	T
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13	45553397	.	T	A
13	45553397	.	T	C
13	45601945	.	T	A
13	45857667	.	C	T
13	45975342	.	C	G
13	45983061	.	C	A
13	46054278	.	G	C
13	46057452	.	A	G
13	46060631	rs369950935	A	G
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13	46083908	.	G	A
13	46090375	.	C	G

13	46276944	.	C	T
13	46287316	.	G	A
13	46287422	.	C	T
13	46287531	.	G	A
13	46287737	.	A	G
13	46288415	.	G	C
13	46542029	.	G	A
13	46543584	.	C	T
13	46543691	.	T	G
13	46549529	rs552113775	C	T
13	46562945	.	T	C
13	46577400	.	T	A
13	46584514	.	C	T
13	46584573	.	G	A
13	46594593	.	T	G
13	46629902	.	G	T
13	46656678	.	C	G
13	46656678	.	C	A
13	46721195	.	G	A
13	46801988	.	G	T
13	46917594	.	A	G
13	47262065	rs201406758	T	C
13	47324715	.	G	T
13	47469809	.	G	A
13	48562800	.	C	T
13	48660486	.	C	A
13	48954342	.	C	G
13	49086893	rs200758614	T	C
13	49089838	.	C	T
13	49580385	.	T	G
13	49719954	.	C	T
13	49741379	.	G	A
13	49765501	.	G	A
13	49796335	.	T	G
13	49842067	.	C	T
13	49852594	.	GAC	G
13	50034246	.	A	G
13	50035254	.	T	C
13	50050877	.	G	A
13	50050922	.	T	C
13	50062756	.	G	A
13	50204683	.	G	A
13	50204690	.	AGCTGGT	A
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13	51287361	.	T	A
13	51825997	.	T	C
13	51826086	.	C	T

13	51855219	.	T	TC
13	51921353	rs370690370	C	A
13	51922474	.	C	A
13	51950309	.	T	A
13	52313194	.	C	T
13	52439686	.	T	G
13	52439825	.	A	G
13	52511794	.	C	T
13	52511811	.	C	T
13	52515301	.	C	T
13	52523911	.	C	T
13	52524450	.	CT	C
13	52676140	.	T	TATAAAA
13	52676144	.	G	A
13	52682509	.	T	A
13	52684489	.	T	C
13	52707855	.	C	T
13	52718941	.	A	C
13	52722580	.	G	C
13	52971499	.	C	T
13	52991272	.	G	C
13	53000143	.	T	C
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13	53049215	.	C	T
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13	53422445	.	C	T
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13	53624187	.	G	T
13	53624210	.	TC	T
13	53624211	rs565369937	C	T
13	53624235	.	T	C
13	53624479	rs534085178	A	G
13	58206979	.	C	T
13	58207338	.	G	A
13	58207576	.	A	G
13	58207593	.	G	A
13	58207816	.	G	A
13	58208286	.	G	T
13	58208892	rs540371246	C	T
13	58240906	.	G	A
13	58298827	.	C	T
13	58298856	.	C	T
13	58298856	.	C	G
13	58298877	.	A	G
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13	60240830	rs201156125	G	T
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13	60435664	.	C	A
13	61041428	.	A	T
13	61059933	rs147530468	A	C
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13	61084778	.	A	G
13	61141690	.	A	G
13	61987459	rs368291792	A	G
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13	67802322	.	T	A
13	70370927	.	G	A
13	72131173	.	C	T
13	72204835	.	C	T
13	73317740	rs10648315	G	GCTGA
13	73320801	.	G	A
13	73327874	.	A	G
13	73345256	.	T	A
13	73352438	.	T	C
13	73352477	.	T	A
13	73649957	.	G	T
13	73649966	rs367684900	A	G
13	73649966	rs367684900	A	C
13	74269804	.	C	A
13	74387314	.	G	T
13	74420081	.	G	A
13	75869118	.	T	C
13	75873687	.	A	G
13	75873691	.	G	T
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13	76055425	.	C	T
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13	76111886	.	A	C
13	76164200	.	CCATCT	C
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13	76381632	.	C	T
13	76412321	.	T	G
13	76445332	.	T	C
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13	77633659	.	T	A
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13	77699525	.	C	T
13	77713414	.	C	T
13	77718689	.	A	C
13	77748603	rs370764370	G	A
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13	77807360	.	G	A
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13	77834716	rs369757801	G	A
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13	77853027	.	C	A
13	78143568	.	C	A
13	78165596	.	G	A
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13	78176211	.	T	C
13	78335218	.	G	A
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13	79191165	.	T	A
13	79233213	.	G	A
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13	79911379	.	C	T
13	79945191	rs377752187	G	A
13	80107572	.	C	A
13	80911318	.	C	T
13	80911389	.	C	T
13	80911525	rs504122	G	C
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13	92345491	.	T	C
13	92408577	.	A	T
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13	95112399	rs138973003	G	T
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13	95112449	.	C	T
13	95114411	.	C	A
13	95121194	.	C	T
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13	95233415	.	G	C

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13	95813520	.	G	C
13	95818411	.	C	A
13	95830278	.	C	G
13	95858856	.	G	A
13	95858874	.	T	C
13	96205020	.	G	A
13	96274733	.	T	G
13	96277153	.	C	T
13	96293618	.	C	G
13	96489339	.	C	G
13	96530010	.	A	G
13	96579328	.	A	T
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13	96589312	.	G	C
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13	96675906	.	G	A
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13	97986578	.	T	G
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13	98673376	.	C	T
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13	99536098	.	G	A
13	99550514	.	A	T
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13	99667801	.	C	T

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13	103491084	.	A	G
13	103710628	.	G	A
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13	107145665	.	A	G
13	107209436	.	T	C
13	107212003	.	C	T
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13	109793605	.	A	G
13	109859177	.	C	T
13	110434671	.	A	G
13	110866344	.	C	A
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13	111213866	rs199842595	T	C
13	111277597	.	A	G
13	111315831	.	C	T
13	111315847	.	C	T
13	111357899	rs117788141	C	G
13	111371935	.	C	T
13	111532073	.	T	C
13	111930016	rs372988490	A	G
13	112722373	.	A	G
13	113030775	.	C	T
13	113170879	.	C	T
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13	114018185	.	C	G
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13	114530089	rs578008516	C	T
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14	20216036	.	G	A
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14	20483351	.	A	T
14	20502265	.	T	C
14	20502332	rs567573202	G	A
14	20502742	.	A	T
14	20528682	rs45585336	T	G
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14	21109288	.	A	G
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14	21162023	.	C	A
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14	21458504	.	C	G
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14	21469532	.	G	C
14	21469690	.	T	G
14	21486197	.	G	A
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14	21490583	.	G	A
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14	21623667	rs138056054	C	A
14	21623730	.	A	C
14	21770674	.	C	A
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14	21868737	rs375862520	G	A
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14	23311741	rs192698502	G	A
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14	23313584	rs140740223	G	T
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14	23397356	.	C	T
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14	23419598	.	G	C
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14	24679638	.	C	A

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14	24684835	rs149955578	G	T
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14	24739186	.	G	A
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14	24769758	.	C	G
14	24773697	.	A	G
14	24774255	.	C	T
14	24775675	.	C	T
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14	24794622	.	A	T
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14	24879383	.	G	A
14	24880392	.	A	G
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14	24886108	.	C	T
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14	29261424	.	G	A
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14	31585652	.	G	A
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14	31626206	.	T	C
14	31642807	.	G	C
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14	32295903	.	C	G
14	32560696	.	A	G
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14	33292599	.	T	A
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14	39601228	.	A	T

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14	51239089	.	T	A
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14	51288735	.	T	G
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14	51372218	.	G	C
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14	52169255	.	T	A
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14	52192560	rs367984773	G	C
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14	52495481	rs7144523	C	G
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14	52505507	.	C	G
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14	52735004	.	G	A
14	52735200	.	G	T

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14	52937384	.	G	A
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14	56146377	.	A	G
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14	57740964	rs114072619	G	T
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14	58048151	rs144758549	C	A
14	58060656	.	C	A
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14	68123249	.	C	G
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14	71575737	.	A	G
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14	76045932	.	T	C
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14	76156560	.	C	T
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14	80130244	.	G	A
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14	81970612	.	C	T
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14	94931126	rs76159860	G	T
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14	94935584	rs78309339	C	CG
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14	95054301	.	A	C
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14	96777943	.	A	G
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14	99932090	rs145391881	G	A
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15	33895490	.	G	A
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15	40018872	rs138106608	A	G
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15	42371809	.	G	A
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15	42640359	.	C	T
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15	44088374	rs144625649	C	CT
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15	44090151	.	A	G
15	44093762	.	C	CT
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15	48057105	.	G	T
15	48057190	.	C	G
15	48058170	rs146233951	C	T
15	48063540	.	C	T
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15	48519321	.	T	A
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15	48717609	.	G	T
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15	50784990	rs146125856	T	C
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15	50835943	.	A	G
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15	51504567	.	C	T
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15	51773388	.	T	C
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15	51792027	.	C	T
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15	52060487	.	A	G
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15	52254625	.	A	G
15	52258310	.	T	A
15	52427869	rs368638508	C	T
15	52488511	.	C	T
15	52498108	.	T	C
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15	56140743	.	C	T
15	56144710	.	C	T
15	56152754	.	CTCTTA	C
15	56152872	rs2303580	C	A
15	56208012	.	C	T
15	56208470	.	C	T
15	56208544	.	G	C
15	56208971	.	G	C
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15	56395840	rs184301483	G	C
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15	56726359	rs146543232	G	A
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15	56924094	.	C	T

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15	57734647	rs373744980	G	A
15	57816843	.	A	G
15	57835957	.	A	G
15	57910273	.	C	T
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15	57931741	.	G	A
15	58465351	.	C	T
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15	59064153	.	A	T
15	59102553	.	T	C
15	59139524	.	A	T
15	59143989	.	C	T
15	59143997	.	C	G
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15	59323487	.	G	C
15	59323722	rs149003993	T	C
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15	59510142	.	C	T
15	59523959	.	G	A
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15	59934417	.	A	G
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15	60297272	.	G	A
15	60653197	.	C	G
15	60720788	.	T	C
15	60734731	.	T	C
15	60768299	.	C	T
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15	62202489	.	G	A
15	62214945	.	A	G
15	62237973	.	TAA	T
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15	62359945	.	C	T
15	62359985	.	G	A
15	62986561	.	C	T

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15	62995056	rs144036109	G	C
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15	63054648	.	A	G
15	63069078	.	T	G
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15	63092894	.	G	A
15	63102143	.	A	G
15	63111739	rs3816988	T	G
15	63125775	rs62004656	G	T
15	63421761	rs146399929	T	A
15	63433520	.	C	G
15	63569872	.	C	T
15	63579698	.	G	C
15	63594669	.	C	T
15	63632966	.	G	A
15	63881144	.	C	G
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15	63889736	.	T	C
15	63958157	.	G	T
15	64263699	.	C	T
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15	64411015	rs368778345	T	G
15	64418369	.	ACT	A
15	64423913	.	C	G
15	64592583	.	A	G
15	64592662	rs549442973	G	A
15	64658202	.	CGTT	C
15	64673536	rs372935868	G	A
15	64792346	.	A	G
15	64966168	.	G	A
15	64967404	.	G	A
15	64967641	.	A	C
15	64967860	.	A	C
15	64968288	.	A	G
15	64970436	rs149149419	A	G
15	64972963	.	G	A
15	64973550	.	C	T
15	65040720	.	C	G
15	65113185	.	C	T
15	65113430	.	C	T
15	65219135	.	C	G
15	65223033	.	C	T
15	65226376	rs148267097	C	G
15	65308827	.	C	G
15	65345444	.	TAA	T
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15	65351721	.	G	C

15	65370271	.	A	G
15	65370343	.	T	G
15	65447406	.	C	G
15	65448068	.	C	T
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15	65489713	rs369696446	G	A
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15	65491420	.	A	G
15	65495760	rs201107273	C	G
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15	65680856	rs202153933	G	A
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15	65685723	.	G	T
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15	65773937	.	T	C
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15	65983592	.	C	T
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15	66618169	.	G	T
15	66618423	.	C	A
15	66621459	.	T	A
15	66625154	.	G	T
15	66625503	.	A	T
15	66625563	.	CCAAA	C
15	66727490	.	A	G

15	66806344	.	T	A
15	66807913	.	A	G
15	66811260	.	A	G
15	66813407	.	C	G
15	66813425	.	A	T
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15	66821891	.	C	A
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15	66838997	.	A	G
15	66842378	rs200340415	C	T
15	66844106	.	AATC	A
15	66853429	.	T	G
15	67073466	.	C	T
15	67528764	rs371926366	C	A
15	67677343	.	T	C
15	67813783	.	C	T
15	67956945	rs202194867	G	T
15	68118557	.	A	G
15	68118951	.	A	G
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15	68479980	.	T	C
15	68491941	.	C	G
15	68503644	.	C	CA
15	68504093	.	G	A
15	68582760	.	C	T
15	68623380	.	G	A
15	68649513	rs369764817	G	C
15	68661600	.	C	T
15	68937521	.	G	A
15	69003915	.	T	G
15	69238220	.	CG	C
15	69238445	rs3743093	G	GAGCACTGG
15	69347713	.	T	G
15	69560697	.	A	T
15	69560919	rs201612284	C	A
15	69714443	.	A	G
15	69732288	.	C	T
15	69732670	.	G	T
15	70346979	.	G	C
15	70348679	.	G	A
15	70961462	.	G	T
15	70961601	.	G	T
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15	71184468	.	A	T
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15	72040862	.	C	A
15	72040862	.	C	T

15	72122503	.	C	T
15	72144491	.	C	T
15	72196376	.	G	T
15	72292260	.	C	T
15	72338366	.	C	T
15	72338855	.	G	GT
15	72432581	rs138734676	T	C
15	72454713	.	C	A
15	72534281	.	C	A
15	72556917	.	C	G
15	72638948	.	G	A
15	72691196	.	T	C
15	72699002	.	C	A
15	72699006	.	G	A
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15	73029262	.	C	T
15	73067356	.	G	A
15	73409025	.	T	C
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15	73593739	.	G	A
15	73832874	.	C	T
15	73862513	.	C	A
15	73862623	.	C	A
15	74032721	.	C	T
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15	74178892	.	G	T
15	74240173	.	C	A
15	74281129	.	G	T
15	74281555	.	C	T
15	74290545	.	G	C
15	74290640	.	AG	A
15	74290793	.	A	G
15	74315198	.	T	A
15	74324914	.	C	G
15	74426155	.	A	C
15	74467884	.	T	C
15	74477340	.	G	C
15	74477370	.	A	G
15	74481496	.	C	G
15	74559071	.	C	A
15	74564136	.	G	T
15	74573024	.	C	T
15	74626286	rs374091946	G	A
15	74703909	.	T	C

15	74708983	.	C	T
15	74911599	.	A	C
15	74912474	.	C	T
15	74912492	.	G	T
15	74921291	.	A	T
15	74932949	.	C	G
15	75042401	.	C	G
15	75042488	.	C	T
15	75043542	.	G	A
15	75043648	.	C	G
15	75044561	.	C	T
15	75047353	.	C	T
15	75108873	.	C	T
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15	75122518	.	G	C
15	75132910	.	G	T
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15	75134463	.	CG	C
15	75137920	.	G	C
15	75194973	rs141379208	C	T
15	75195115	.	C	A
15	75197516	.	A	C
15	75336781	.	G	C
15	75498673	.	G	A
15	75498774	.	G	A
15	75499642	rs370447315	A	G
15	75499792	.	C	G
15	75500118	.	A	T
15	75503350	rs199926268	G	A
15	75646083	.	G	A
15	75648512	.	C	T
15	75650613	.	A	G
15	75651071	.	G	C
15	75651458	.	G	A
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15	75656963	.	C	A
15	75798218	rs144499352	C	T
15	75798310	.	T	C
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16	1877754	rs150430426	A	G
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16	19547878	.	A	G
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16	84520281	.	C	A
16	84520401	.	C	T
16	84520501	.	G	T
16	84522965	.	A	G
16	84684487	.	G	T
16	84693498	.	T	A
16	84792322	.	A	T
16	84907527	.	A	G
16	84914147	.	C	G
16	85015491	.	C	A
16	85024065	.	T	A
16	85024207	.	G	C
16	85109500	.	G	C
16	85111193	.	G	A
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16	85116189	.	G	A
16	85138947	.	G	C
16	85141552	.	G	C
16	85689335	.	G	A
16	85689358	.	C	T
16	85689363	.	A	T
16	85701824	.	C	T
16	85701824	.	C	G
16	85706105	.	T	G
16	85706119	.	G	A
16	85711844	.	C	A
16	85715257	.	C	T
16	85715258	.	G	A
16	86580222	.	C	A
16	86602284	.	C	T
16	86612745	.	G	A
16	86613347	rs539599013	A	G
16	87369846	.	C	G
16	87393967	.	C	A
16	87445842	.	G	A
16	87742907	.	T	C
16	87743006	.	C	A
16	87748164	.	C	T
16	87760493	.	G	C
16	87764228	rs367777769	G	C
16	87873421	.	G	C
16	87874731	.	G	A
16	88601245	.	C	G
16	88601359	.	C	T
16	88664724	.	C	T
16	88665106	.	C	T
16	88666251	.	A	G

16	88688628	.	A	G
16	88689670	.	C	T
16	88767742	.	C	A
16	88779291	.	G	A
16	88781621	.	CTGAT	C
16	88786098	rs538239627	G	A
16	88798758	.	G	T
16	88801435	.	G	A
16	88871933	.	G	A
16	88871942	.	G	A
16	88889099	.	C	A
16	88925096	.	T	C
16	88945719	.	C	G
16	88945799	.	C	T
16	89180854	.	TG	T
16	89211752	.	TAC	T
16	89264929	.	G	A
16	89293254	rs76378664	C	A
16	89293360	.	G	T
16	89293490	.	C	G
16	89293693	.	G	A
16	89293961	.	C	T
16	89294029	.	G	C
16	89294212	.	G	A
16	89294231	.	A	C
16	89294323	rs371697256	A	G
16	89294351	.	T	C
16	89294397	.	G	T
16	89294680	.	GA	G
16	89294738	.	C	T
16	89357048	.	C	A
16	89357580	.	G	A
16	89629322	.	A	G
16	89650442	.	G	A
16	89655099	.	C	A
16	89657419	.	C	G
16	89661971	rs573409569	G	A
16	89704497	.	T	C
16	89735763	rs368742617	C	T
16	89759814	.	G	A
16	89764272	.	C	G
16	89804545	.	T	A
16	89929899	.	G	C
16	89929942	.	G	T
16	89929992	.	C	T
16	89930013	.	G	A
16	89936511	rs375510821	A	G
16	89960231	.	G	T

16	89972604	rs137901241	G	T
16	89986589	rs375127718	C	CT
16	90027374	.	C	G
16	90028438	.	C	T
16	90028460	.	C	T
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16	90038105	.	C	T
16	90038150	.	T	C
16	90038269	.	G	A
16	90075691	.	C	T
16	90075776	.	C	A
16	90128484	.	G	A
16	90141834	.	A	C
17	69414	.	C	G
17	263023	.	C	G
17	526837	.	G	A
17	643808	.	C	A
17	648731	.	T	C
17	648987	.	G	C
17	648997	.	C	A
17	650394	.	C	A
17	650984	.	A	G
17	651011	rs199833752	C	T
17	673129	.	C	T
17	685477	.	G	C
17	686444	.	T	G
17	694854	.	G	A
17	722726	rs201388018	G	C
17	902099	.	CGT	C
17	960298	.	T	C
17	1183455	rs201625477	G	C
17	1375253	.	C	T
17	1375500	.	C	T
17	1380799	.	G	A
17	1381397	.	T	A
17	1381424	.	G	A
17	1385827	rs200316832	C	T
17	1387525	.	C	T
17	1401384	.	C	T
17	1413080	.	C	T
17	1494553	.	AGGCGGGTA	A
17	1494574	.	G	T
17	1542191	.	C	A
17	1543293	.	C	T
17	1564419	.	C	T
17	1565266	.	G	A
17	1612796	.	C	G
17	1612858	.	C	T

17	1639457	.	C	T
17	1650773	.	G	A
17	1657473	.	T	C
17	1673330	rs144853088	C	T
17	1684636	.	T	A
17	1703310	.	G	A
17	1747980	.	G	C
17	1782303	.	C	T
17	1782305	.	G	A
17	1782633	.	T	C
17	1782657	rs188010364	C	T
17	1782886	.	G	A
17	1937093	.	G	C
17	1939874	.	A	G
17	1946269	.	GGA	G
17	1946271	.	A	G
17	1946312	.	C	G
17	1946312	.	C	T
17	1946364	.	C	T
17	1985121	.	G	A
17	2091747	.	T	C
17	2186122	.	T	C
17	2203331	.	C	T
17	2221253	.	C	A
17	2222144	.	C	A
17	2224825	.	TTTCACTAAA	T
17	2228084	.	A	G
17	2228598	.	C	G
17	2235542	.	CCAA	C
17	2235613	rs376476961	G	A
17	2236260	.	A	G
17	2236266	rs552467554	C	T
17	2236392	.	C	A
17	2246876	.	T	G
17	2266357	.	C	G
17	2279452	.	G	A
17	2282759	.	T	C
17	2324172	.	T	A
17	2381028	.	C	T
17	2596147	.	C	T
17	2598569	rs372976014	G	C
17	2599761	.	C	T
17	2599787	.	A	C
17	2599800	rs373602317	C	T
17	2600011	.	A	C
17	2600118	.	C	A
17	2866743	.	C	G
17	2883646	.	C	T

17	2901594	.	T	C
17	2921389	.	C	T
17	2934251	.	A	C
17	2995723	.	A	C
17	2995975	.	A	G
17	3101257	.	T	C
17	3101541	.	C	A
17	3101684	.	G	T
17	3119641	.	C	T
17	3195045	.	C	A
17	3195691	.	C	T
17	3301535	rs143079576	G	T
17	3448543	.	C	G
17	3476965	.	T	C
17	3486698	.	TC	T
17	3493237	.	G	A
17	3514086	.	A	G
17	3560007	.	C	T
17	3561432	.	T	A
17	3591920	.	C	G
17	3591980	.	T	C
17	3623621	.	C	T
17	3628415	rs150745311	G	C
17	3638245	.	T	G
17	3655092	.	G	T
17	3655140	.	A	G
17	3656601	.	A	G
17	3656617	.	T	G
17	3663542	.	A	G
17	3704417	.	G	T
17	3721594	.	A	G
17	3721596	.	A	G
17	3721621	.	G	T
17	3779525	.	T	C
17	3783707	.	A	T
17	3788749	.	C	T
17	3808528	.	C	G
17	3844456	.	G	A
17	3919757	.	G	C
17	3920787	.	G	A
17	3920861	.	G	A
17	3921018	.	G	A
17	3926046	.	T	C
17	3928317	.	C	A
17	3937330	.	A	C
17	3954329	.	G	A
17	3957411	.	A	G
17	3959583	.	T	A

17	3967721	.	T	G
17	3974175	.	T	C
17	3994014	.	T	C
17	4007975	.	G	C
17	4013113	.	T	C
17	4016062	.	T	C
17	4017749	.	A	G
17	4027270	.	T	A
17	4074126	rs368663243	C	T
17	4085492	.	TC	T
17	4098291	rs147745463	C	T
17	4145738	.	C	T
17	4352528	.	A	C
17	4434079	.	G	A
17	4435859	.	TCA	T
17	4435860	.	C	G
17	4435906	.	C	T
17	4436628	.	G	T
17	4436695	rs551257158	G	A
17	4445772	rs145257834	C	G
17	4445963	.	C	T
17	4446327	.	T	C
17	4449236	.	G	T
17	4455828	.	G	A
17	4457509	.	T	A
17	4458193	.	T	C
17	4461507	.	C	T
17	4461521	.	G	T
17	4463788	.	T	A
17	4510726	.	A	G
17	4536750	.	C	T
17	4544856	.	C	A
17	4575570	.	C	G
17	4575594	.	C	T
17	4576095	.	G	C
17	4576660	.	C	T
17	4578243	.	C	T
17	4579154	.	C	T
17	4607195	.	C	G
17	4624305	.	G	A
17	4685828	.	G	A
17	4688675	.	T	A
17	4688687	.	G	C
17	4692342	.	C	G
17	4692361	.	C	T
17	4701635	.	T	G
17	4711608	.	G	T
17	4719128	.	G	A

17	4719230	.	G	A
17	4721319	.	G	A
17	4721844	.	G	A
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17	4796295	.	C	A
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17	4805261	.	G	A
17	4805320	.	A	G
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17	4848217	.	C	T
17	4859248	.	G	A
17	4862898	.	C	G
17	4863316	.	C	G
17	4872544	.	C	T
17	4873216	.	G	C
17	4875748	.	T	C
17	4876156	.	C	T
17	4881814	.	G	A
17	4883413	.	C	T
17	4885118	.	G	C
17	4885407	.	G	A
17	4936424	.	A	C
17	4936457	rs201578619	G	C
17	4937308	.	CA	C
17	4937362	.	G	A
17	4995499	.	T	C
17	4995776	.	G	T
17	5085169	.	C	T
17	5085502	rs114754534	C	T
17	5086177	.	G	A
17	5086371	.	T	C
17	5086403	.	C	A
17	5086800	.	C	T
17	5087545	.	C	T
17	5124610	.	T	C
17	5253893	.	G	A
17	5264648	.	C	T
17	5266214	.	A	T
17	5286477	.	G	C
17	5298213	.	G	T
17	5331391	.	T	C
17	5336723	.	C	A
17	5353629	.	C	A
17	5356898	.	AC	A
17	5357193	.	T	C
17	5358542	.	G	C
17	5359361	.	G	C

17	5392363	.	C	A
17	5421120	.	G	A
17	5462806	.	G	A
17	6014183	.	C	T
17	6014250	.	A	C
17	6021362	.	C	T
17	6021362	.	C	G
17	6023787	.	G	A
17	6352712	.	T	C
17	6483152	.	CCCAG	C
17	6483176	.	T	A
17	6526284	.	C	T
17	6674253	.	T	C
17	6683560	.	C	T
17	6684079	.	T	A
17	6704171	rs139532367	G	C
17	6901888	.	AAGAC	A
17	6902654	.	G	A
17	6904955	rs368950205	C	A
17	6927857	.	G	GC
17	6929883	.	T	G
17	6930148	.	T	A
17	6943258	rs148247138	A	C
17	6981403	rs78714016	G	T
17	7011871	.	G	A
17	7081833	.	T	A
17	7127329	.	CG	C
17	7128193	.	G	A
17	7139309	.	C	A
17	7140718	.	G	A
17	7150439	.	C	A
17	7158188	.	C	T
17	7164200	.	C	T
17	7164213	.	C	T
17	7165299	.	C	T
17	7189064	.	T	A
17	7189147	.	C	T
17	7216953	.	T	G
17	7217018	.	G	A
17	7217230	rs200523158	G	A
17	7217399	.	C	A
17	7217879	.	C	T
17	7220825	.	C	G
17	7221149	.	C	T
17	7224719	.	A	C
17	7226297	.	C	T
17	7230241	.	G	A
17	7231067	.	C	T

17	7240677	.	C	T
17	7245324	.	C	T
17	7245355	.	C	T
17	7251512	.	G	A
17	7252395	.	C	T
17	7254289	.	G	A
17	7258612	rs139619873	G	T
17	7259577	rs199658290	C	G
17	7259713	.	A	C
17	7286378	.	G	A
17	7286604	.	C	A
17	7287085	.	C	G
17	7291803	.	G	C
17	7291848	.	G	A
17	7291943	rs80015268	G	T
17	7292132	.	C	T
17	7296224	.	C	G
17	7306466	.	CAG	C
17	7324427	.	T	C
17	7324499	.	C	T
17	7324868	rs199730720	A	G
17	7324897	.	G	A
17	7329134	rs72842820	G	T
17	7329824	.	C	T
17	7330208	.	T	A
17	7330740	.	C	A
17	7344796	.	A	G
17	7344813	.	A	G
17	7344901	.	G	A
17	7345121	.	C	T
17	7345181	.	G	A
17	7350970	.	G	A
17	7365268	.	A	C
17	7365660	.	C	T
17	7366860	.	C	T
17	7366974	rs373201895	G	T
17	7466428	.	G	A
17	7476123	.	T	C
17	7478648	.	G	C
17	7480786	.	A	G
17	7481174	rs144046225	C	A
17	7481663	.	C	T
17	7481700	.	A	G
17	7483646	.	G	A
17	7489073	.	A	C
17	7492773	.	C	T
17	7492823	.	C	T
17	7495643	.	C	G

17	7496783	.	C	T
17	7499210	.	G	C
17	7507142	.	T	A
17	7536146	.	T	C
17	7557505	.	C	A
17	7557953	.	A	C
17	7606327	.	G	A
17	7636497	rs117035657	G	GGGCC
17	7662809	.	G	A
17	7671512	.	C	T
17	7678215	.	G	A
17	7689928	.	T	C
17	7691498	.	C	A
17	7696357	.	G	T
17	7700732	.	G	A
17	7701636	.	C	T
17	7701640	.	ATGG	A
17	7704907	rs2309808	G	A
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17	7726884	.	A	T
17	7727263	.	C	T
17	7733799	.	C	G
17	7734024	.	C	T
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17	7736452	.	T	A
17	7736700	.	T	G
17	7736838	.	G	C
17	7749464	.	G	A
17	7749945	.	G	A
17	7750538	.	C	A
17	7751249	.	C	T
17	7751561	.	C	T
17	7753231	rs144775064	G	T
17	7754709	.	C	T
17	7754861	.	C	T
17	7755529	.	A	G
17	7760454	.	CA	C
17	7762009	.	C	T
17	7827362	.	C	G
17	7827809	.	C	T
17	7828441	.	C	T
17	7829255	.	C	T
17	7830984	.	G	C
17	7831137	.	C	T
17	7836461	.	T	C
17	7843007	.	G	T
17	7847553	.	G	A
17	7852450	.	G	A

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17	7948224	.	C	T
17	7948694	rs200221058	G	C
17	7950324	rs139880289	C	CGA
17	7951089	.	C	G
17	7951136	.	C	A
17	7951222	.	C	T
17	7978982	.	C	A
17	7983435	rs149499780	A	AGG
17	8007504	.	C	A
17	8012561	.	C	T
17	8045710	.	C	G
17	8046124	rs371501353	G	T
17	8049309	.	C	T
17	8050256	.	A	G
17	8050281	.	T	C
17	8051375	.	G	A
17	8052075	.	C	G
17	8053084	.	G	C
17	8053295	.	C	A
17	8053630	.	T	A
17	8065012	.	G	A
17	8079594	.	A	C
17	8108584	.	G	A
17	8108674	.	G	A
17	8110666	.	C	G
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17	8158433	.	C	T
17	8159202	.	G	C
17	8160267	rs368979658	A	G
17	8161197	rs201672276	T	A
17	8161485	.	C	CA
17	8166443	.	C	T
17	8166905	.	A	G
17	8170941	.	G	A
17	8172429	.	T	G
17	8192117	.	CGA	C
17	8192331	.	G	C
17	8192342	.	T	C
17	8193228	rs374174477	G	T
17	8193863	.	CAGA	C
17	8195897	.	G	T
17	8197921	.	C	A
17	8198046	.	ATCCTGG	A
17	8218732	.	A	C
17	8222819	.	T	G
17	8222830	.	ACTGTGTTC/	A
17	8272699	.	AT	A

17	8424278	.	G	A
17	8647864	.	G	A
17	8661674	.	CG	C
17	8701441	.	A	G
17	8701591	.	C	T
17	8701604	.	C	T
17	8701630	.	C	CTG
17	8701642	.	A	G
17	8701955	.	GGT	G
17	8725166	.	T	C
17	8791887	.	CGCCT	C
17	8808117	rs369760005	A	G
17	9281935	.	T	G
17	9511458	.	T	C
17	9538739	.	A	G
17	9604717	.	C	A
17	9631385	.	G	T
17	9631934	.	G	T
17	9674905	.	G	T
17	9739720	.	G	A
17	9745878	.	C	A
17	9757864	.	A	G
17	9765372	.	T	G
17	9792954	.	G	A
17	9801458	rs541814151	A	T
17	9804342	.	C	T
17	9804356	rs374805649	G	A
17	9820631	.	G	A
17	9829965	.	A	G
17	9843483	.	C	T
17	9885171	.	G	C
17	10210355	.	T	A
17	10227551	.	G	A
17	10243671	.	A	G
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17	10295272	.	A	C
17	10302101	.	A	G
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17	10307822	.	T	C
17	10309388	.	C	G
17	10309637	.	G	A
17	10312652	.	T	C
17	10317522	.	A	G
17	10317591	.	T	A
17	10318806	.	C	T

17	10319008	rs148334778	T	G
17	10348168	.	C	T
17	10350437	.	C	T
17	10352255	.	C	A
17	10354717	.	T	A
17	10356250	.	C	A
17	10356506	.	G	A
17	10358015	.	C	G
17	10358123	.	A	G
17	10359843	.	T	C
17	10364238	.	G	A
17	10366504	.	A	T
17	10366711	.	A	G
17	10398329	.	C	G
17	10400699	rs376070618	C	T
17	10400726	.	T	C
17	10404056	.	T	A
17	10408544	rs148002944	G	A
17	10408752	.	C	T
17	10416253	.	G	A
17	10416988	.	G	A
17	10531984	.	C	T
17	10538209	.	C	A
17	10541421	.	C	A
17	10541745	.	C	A
17	10595249	.	G	A
17	10608747	.	G	T
17	10609866	.	T	C
17	10629535	.	T	A
17	10629581	.	C	T
17	10728848	.	A	T
17	11145244	.	C	T
17	11459207	.	T	C
17	11461431	.	G	A
17	11461436	.	C	T
17	11461455	.	C	G
17	11461536	.	G	T
17	11726152	.	C	A
17	11775054	.	G	A
17	11865292	.	G	GC
17	11881293	.	C	G
17	11896047	.	G	A
17	12011131	.	C	T
17	12647549	.	C	G
17	12647596	.	G	A
17	12655819	.	A	G
17	12656260	.	A	C
17	12659782	.	A	T

17	12663997	.	C	A
17	12898087	.	G	A
17	15215773	.	TG	T
17	15222439	.	T	G
17	15234435	rs371515265	C	T
17	15406318	.	C	G
17	15449128	.	C	A
17	15604538	.	T	G
17	15965543	.	G	A
17	16001703	.	C	T
17	16120637	.	C	T
17	16327013	.	C	T
17	16329416	.	T	C
17	16329497	.	C	T
17	16330070	.	A	G
17	16335107	rs377020697	C	T
17	16335301	rs370180667	A	G
17	16336946	.	G	C
17	16467070	.	G	C
17	16525954	.	T	C
17	16526038	.	T	C
17	16526516	.	C	G
17	16526764	.	T	A
17	16527205	.	T	C
17	16527346	.	A	C
17	16550707	.	C	A
17	16843021	rs370250196	G	A
17	17057717	.	C	T
17	17248129	.	T	C
17	17394673	.	G	A
17	17480332	rs372918122	A	C
17	17699686	rs145704270	C	T
17	17720336	.	G	C
17	17722752	.	T	C
17	17891248	.	CTG	C
17	17891275	.	G	T
17	17907687	.	C	T
17	17909525	.	T	C
17	17910385	.	T	C
17	17910388	.	A	C
17	17919886	.	G	C
17	17931589	.	C	T
17	17960188	.	G	C
17	18069767	rs377125285	C	T
17	18077165	.	GCTAC	G
17	18137391	.	C	T
17	18140191	.	G	A
17	18140942	.	T	C

17	18141422	.	C	T
17	18141520	.	A	T
17	18141887	rs138380942	C	T
17	18149484	.	T	G
17	18149704	.	G	A
17	18149770	.	G	C
17	18149974	.	C	T
17	18150521	.	G	C
17	18151245	.	G	C
17	18151935	.	C	G
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17	18155844	.	A	G
17	18156892	.	A	G
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17	18194202	.	G	A
17	18206013	rs200654584	C	T
17	18219666	.	G	A
17	18219771	.	G	T
17	18220506	.	G	C
17	18220596	rs533852163	G	T
17	18220950	rs373948273	C	T
17	18233902	.	A	G
17	18236518	.	G	T
17	18284996	.	C	T
17	18638636	.	C	T
17	18654248	.	C	G
17	18770642	.	A	G
17	18781144	.	A	G
17	18863907	.	G	T
17	18874422	.	G	A
17	18874788	.	G	A
17	18907324	.	C	A
17	19186527	.	C	T
17	19283173	.	A	G
17	19285717	.	C	T
17	19286441	.	A	C
17	19288739	.	A	G
17	19318138	rs577137511	G	A
17	19451325	.	G	A
17	19452991	.	G	A
17	19458959	.	TTC	T
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17	19463758	.	T	G
17	19470127	.	G	C
17	19474805	.	A	T
17	19480787	rs144621154	G	GGC
17	19559749	.	T	A

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17	19610044	.	C	T
17	19617280	.	C	T
17	19680921	.	G	C
17	19812506	.	C	A
17	19850729	.	C	T
17	19850786	.	T	C
17	20000025	rs376907350	C	CGG
17	20013824	.	A	G
17	20107669	.	A	G
17	20108218	.	G	A
17	20149375	.	G	A
17	20150571	.	G	C
17	21081588	.	T	C
17	21146662	.	G	T
17	21146689	.	C	A
17	21146699	.	A	C
17	21147445	rs372077272	G	T
17	21202191	rs33911218	C	A
17	21202197	.	C	T
17	21202198	rs139443409	G	A
17	21202199	.	G	GAACCTGGA
17	21204187	rs56067280	G	T
17	21204192	rs56216806	C	T
17	21204210	rs55796947	C	T
17	21204261	.	G	A
17	21206532	.	C	T
17	21215536	.	C	G
17	21216815	.	AC	A
17	21217513	rs2363198	G	A
17	21318680	.	C	A
17	21318731	.	C	T
17	21318782	rs78117732	G	A
17	21318782	rs78117732	G	T
17	21318818	.	T	A
17	21318890	rs377320706	G	A
17	21318952	rs8076599	A	G
17	21319003	.	G	A
17	21319007	rs1657740	G	A
17	21319062	.	C	G
17	21319091	.	A	G
17	21319093	rs137885339	G	A
17	21319121	rs1714864	C	T
17	21319208	rs73979896	C	T
17	21319285	rs72846667	C	T
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17	21319402	.	G	A
17	21319729	.	G	A

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17	21319792	rs148164273	G	A
17	21319835	.	G	C
17	21319862	.	G	A
17	21319909	rs77266866	G	A
17	21319928	.	G	A
17	25637095	.	T	G
17	25919650	.	A	C
17	25932691	.	A	G
17	26094751	.	T	C
17	26099434	.	G	T
17	26101453	.	G	A
17	26105752	.	GA	G
17	26109980	.	G	T
17	26116628	.	A	G
17	26499609	.	G	T
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17	26653595	.	T	C
17	26653608	.	C	G
17	26653703	.	G	T
17	26684887	.	A	G
17	26684914	.	A	G
17	26691567	.	G	C
17	26691930	rs77202845	T	G
17	26691956	.	G	A
17	26691968	.	C	A
17	26692232	.	C	G
17	26694774	.	G	A
17	26694885	.	T	G
17	26695969	.	G	C
17	26695979	.	A	C
17	26696755	.	T	C
17	26817568	.	G	A
17	26817765	.	A	G
17	26820667	.	C	G
17	26821486	.	G	A
17	26822812	.	T	G
17	26823537	.	A	T
17	26824163	.	C	T
17	26824205	.	A	T
17	26874818	.	C	T
17	26874826	.	C	A
17	26898123	.	C	G
17	26913181	.	G	A
17	26943476	.	G	A
17	26946705	.	T	G
17	26950807	.	C	T
17	26958550	rs201469940	G	C

17	26962112	.	C	A
17	26962113	rs139419734	T	G
17	26965329	.	G	A
17	27004797	rs370688389	A	G
17	27004832	.	C	G
17	27005116	.	G	C
17	27005852	.	G	A
17	27010009	.	G	T
17	27014205	rs149659188	G	C
17	27023904	.	T	C
17	27024072	.	T	G
17	27024653	.	G	A
17	27031765	.	A	G
17	27038645	.	A	G
17	27052384	rs555266561	C	T
17	27065001	.	C	A
17	27076422	.	T	C
17	27085307	.	T	A
17	27183398	.	C	G
17	27183410	.	G	T
17	27183541	.	A	G
17	27185632	.	C	CA
17	27207585	.	C	A
17	27207781	.	C	G
17	27208373	.	G	A
17	27209626	.	G	A
17	27216015	.	A	G
17	27228294	.	ACG	A
17	27284387	.	C	G
17	27284413	rs117736100	C	A
17	27286205	.	A	G
17	27287652	.	G	T
17	27287983	.	C	T
17	27380149	.	C	T
17	27381674	.	G	A
17	27382096	rs140417099	G	A
17	27413544	.	G	C
17	27419435	.	C	T
17	27421974	.	T	A
17	27424847	.	C	T
17	27425843	.	C	T
17	27493123	.	A	G
17	27493246	.	G	A
17	27493586	.	C	T
17	27493924	.	T	C
17	27579191	.	C	CTGTACAAA
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17	27889798	.	G	GC

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17	27889914	.	C	G
17	27893471	rs143659545	G	C
17	27905362	.	C	T
17	27910533	.	G	A
17	27936136	rs546096254	G	A
17	27943067	rs574484557	G	C
17	27943099	.	G	C
17	27943103	.	C	A
17	27943829	.	C	A
17	27944026	.	A	G
17	27944276	.	G	A
17	27963223	.	A	T
17	27963356	.	G	A
17	27963562	.	C	G
17	27977813	.	C	T
17	27999019	.	T	C
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17	28378152	.	G	C
17	28383163	.	C	A
17	28384885	.	G	A
17	28386650	.	G	C
17	28407931	rs142178237	G	A
17	28410046	.	G	T
17	28434978	.	T	C
17	28445108	.	A	C
17	28511776	.	G	A
17	28539872	.	T	C
17	28601142	.	T	G
17	28616459	.	G	A
17	28616479	.	C	A
17	28645874	.	A	G
17	28712215	rs377027055	G	C
17	28712245	.	G	C
17	28750037	.	A	C
17	28769342	.	G	C
17	28770908	.	A	G
17	28772863	.	A	G
17	28789039	.	A	G
17	28837929	.	T	A
17	29119513	.	C	T
17	29120522	.	C	G
17	29161976	.	T	C
17	29163062	.	A	G
17	29192800	.	C	T
17	29203440	.	C	G
17	29226453	.	C	T
17	29324349	.	TG	T

17	29325725	.	T	C
17	29325820	.	T	C
17	29326096	.	G	T
17	29592333	.	C	T
17	29631603	.	G	A
17	29631697	rs139395003	C	T
17	29653188	.	C	T
17	29855551	.	C	T
17	30179846	.	G	C
17	30202270	.	CA	C
17	30202275	rs150542174	G	A
17	30207769	.	GA	G
17	30221704	.	C	A
17	30348400	.	G	A
17	30348400	.	G	C
17	30348747	.	A	C
17	30694829	.	C	G
17	30696336	.	C	T
17	30796031	.	C	T
17	30814949	.	C	T
17	30932141	.	C	G
17	31075979	.	T	C
17	31099811	.	T	A
17	31107729	.	T	C
17	31267947	.	C	G
17	31348270	.	G	C
17	31415967	.	T	G
17	32483082	.	AG	A
17	32583279	.	A	G
17	32583755	.	T	G
17	32612829	.	T	C
17	32647405	.	T	C
17	32685133	.	C	G
17	32688803	.	C	A
17	32906022	.	A	G
17	32906038	rs117721431	G	T
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17	32956204	.	C	A
17	32959804	.	G	T
17	32959862	.	T	C
17	32961822	.	G	A
17	33269837	rs151193695	C	A
17	33269838	.	G	C
17	33288587	.	T	G
17	33289454	.	C	G
17	33289549	.	C	T
17	33310419	.	G	T
17	33313136	.	T	A

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17	33331470	.	C	T
17	33460378	.	G	C
17	33466277	.	T	A
17	33466325	.	G	A
17	33481599	.	A	G
17	33482392	.	GGCTGTCTG	G
17	33491161	.	G	C
17	33503021	.	C	T
17	33588063	.	C	A
17	33591829	.	T	G
17	33592126	rs200569989	G	A
17	33768354	rs3744371	C	G
17	33801952	.	A	G
17	33801970	.	C	CA
17	33806271	.	C	T
17	33806706	.	A	G
17	33806994	.	C	T
17	34071877	.	A	T
17	34072046	.	C	T
17	34072897	.	G	T
17	34073059	.	C	T
17	34076188	.	C	A
17	34077182	.	G	A
17	34077218	.	C	A
17	34077227	.	G	A
17	34095264	.	C	A
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17	34182720	.	T	G
17	34185251	.	G	C
17	34185257	.	C	G
17	34199418	.	C	T
17	34252574	.	T	C
17	34257195	.	G	A
17	34313692	.	G	A
17	34340898	.	C	G
17	34391706	.	A	G
17	34398380	.	C	G
17	34854283	rs368292066	G	A
17	34861189	.	G	A
17	34863266	.	G	T
17	34863269	.	C	A
17	34871013	.	G	T
17	34871743	.	C	A
17	34883408	.	C	T

17	34883941	.	G	C
17	34892975	.	G	C
17	34893347	.	C	T
17	34893558	.	T	G
17	34937913	.	G	A
17	34937937	.	C	T
17	34945815	.	T	A
17	34956628	.	C	T
17	34958776	rs148399281	A	C
17	34964384	.	TCTC	T
17	35300363	.	G	C
17	35310581	.	G	A
17	35376362	.	C	T
17	35454029	.	C	G
17	35478355	rs181617224	C	A
17	35518810	.	G	A
17	35591969	.	C	T
17	35597458	.	G	T
17	35736265	.	C	A
17	35745607	.	A	C
17	35746246	.	AG	A
17	35872768	.	G	C
17	35872903	.	C	G
17	35880693	.	G	C
17	35902310	.	G	C
17	35902520	.	G	A
17	35902640	.	A	G
17	35928956	.	G	A
17	35936444	.	A	G
17	35981228	.	T	A
17	35988685	.	C	A
17	35990136	.	A	G
17	36003424	.	C	T
17	36352433	.	T	A
17	36358966	.	G	T
17	36358969	.	G	GT
17	36476544	.	T	G
17	36476577	.	C	G
17	36476606	.	G	C
17	36478446	.	C	T
17	36484183	.	CTG	C
17	36486353	.	GAGGGCCC1	G
17	36489841	.	G	A
17	36491519	rs188042054	A	G
17	36495308	.	T	A
17	36498886	.	C	A
17	36499311	.	G	A
17	36499572	.	G	A

17	36520704	.	C	T
17	36520722	.	G	T
17	36868996	.	C	T
17	36869014	.	C	A
17	36873852	.	A	G
17	36876715	.	G	T
17	36958424	.	A	G
17	36959116	.	T	C
17	36962608	.	T	C
17	36965957	.	G	A
17	36997476	.	T	C
17	37226107	.	A	G
17	37226123	rs141398304	G	A
17	37263773	.	C	T
17	37265571	.	T	C
17	37295947	.	A	G
17	37296025	rs114297422	C	A
17	37316873	.	T	C
17	37319094	.	A	G
17	37340042	.	G	C
17	37340111	.	A	T
17	37343851	.	T	G
17	37369352	.	C	T
17	37370526	.	A	G
17	37455309	.	C	T
17	37604089	.	G	A
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17	37627979	.	C	T
17	37646925	.	C	G
17	37649078	.	A	T
17	37673794	.	G	A
17	37686934	.	C	A
17	37687039	.	C	T
17	37687415	.	A	G
17	37792077	.	G	C
17	37826236	.	G	A
17	37881428	rs375637720	G	A
17	37882041	.	A	G
17	37898943	.	C	T
17	37899263	.	A	G
17	37899273	.	G	T
17	37899273	.	G	A
17	37903053	.	G	A
17	37903100	.	G	A
17	37922305	rs146295860	C	T
17	37947800	.	G	C
17	38028571	.	C	T
17	38061065	.	T	G

17	38122083	.	T	C
17	38131256	.	G	A
17	38133160	.	A	G
17	38140615	.	G	A
17	38146006	.	G	A
17	38172590	.	G	T
17	38179571	.	G	T
17	38183158	.	C	T
17	38192026	.	A	G
17	38230770	.	G	A
17	38240203	.	A	G
17	38240923	rs550708358	G	A
17	38251333	.	C	T
17	38290588	.	A	T
17	38319040	.	G	A
17	38348868	.	G	A
17	38349184	.	C	G
17	38420907	.	C	T
17	38447312	.	G	T
17	38447313	.	A	AT
17	38447316	.	A	T
17	38457760	.	T	C
17	38555338	.	C	A
17	38556304	rs564747456	C	T
17	38556619	.	C	T
17	38562724	.	T	C
17	38610292	.	A	G
17	38640856	.	C	T
17	38643470	.	A	G
17	38818270	rs561440194	C	T
17	38855838	rs529976751	T	A
17	38856505	.	CG	C
17	38857539	rs116079865	G	T
17	38859508	.	GTTCTGCATC	G
17	38911258	rs557047959	C	T
17	38911276	.	A	G
17	38911400	.	C	T
17	38926314	.	G	C
17	38926642	.	G	C
17	38927992	.	C	A
17	38936560	.	G	A
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17	38953434	.	C	T
17	38953497	.	C	T
17	38956022	.	C	A
17	39019580	.	C	G
17	39022882	.	A	G
17	39034554	.	G	A

17	39081675	.	A	G
17	39087668	.	G	C
17	39092526	.	C	G
17	39120743	.	G	A
17	39122772	.	T	G
17	39135111	rs200561810	G	A
17	39137083	.	C	A
17	39137379	.	G	T
17	39137403	.	C	T
17	39139297	.	C	A
17	39140207	.	C	G
17	39165140	.	G	C
17	39165253	.	C	A
17	39183334	.	C	T
17	39183405	.	C	G
17	39258394	.	C	A
17	39274404	.	C	T
17	39316567	.	C	G
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17	39334187	.	C	A
17	39340738	.	ACGGCAGCA	A
17	39340763	.	CT	C
17	39341024	.	C	T
17	39458118	.	G	A
17	39458269	.	G	A
17	39458670	rs574244294	C	T
17	39464021	.	T	A
17	39464096	.	T	A
17	39464427	.	C	G
17	39464612	.	GCA	G
17	39465232	.	C	A
17	39503359	.	A	G
17	39537358	.	C	T
17	39538162	.	G	A
17	39595588	.	C	T
17	39596692	.	A	T
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17	39596798	.	C	T
17	39596810	.	C	A
17	39597026	.	C	T
17	39634697	.	C	A
17	39635235	.	G	T
17	39643882	.	G	C
17	39643885	rs8073689	C	G
17	39645701	.	T	C
17	39645804	.	C	T
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17	39671904	.	C	A

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17	39672397	.	C	A
17	39673133	.	G	C
17	39680651	.	C	T
17	39872102	.	G	T
17	39881117	.	C	A
17	39881356	.	G	A
17	39884518	rs199907166	G	A
17	39888237	.	T	G
17	39921024	.	G	A
17	39921041	.	A	G
17	39983837	.	G	T
17	40001553	.	G	A
17	40001595	.	G	T
17	40010576	.	C	T
17	40010582	.	C	G
17	40021084	.	GGCCAACTC	G
17	40065934	.	C	G
17	40125722	.	T	C
17	40173636	.	C	T
17	40186322	.	T	A
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17	40255647	.	A	C
17	40256899	.	G	A
17	40257074	.	G	A
17	40257814	.	G	C
17	40262788	.	T	C
17	40263424	rs200153212	C	A
17	40263424	rs200153212	C	T
17	40272812	.	G	T
17	40274983	.	G	GAC
17	40275280	.	G	T
17	40280763	.	G	C
17	40321577	.	C	T
17	40330164	.	G	T
17	40342249	.	A	G
17	40343086	.	C	G
17	40453466	.	C	T
17	40481660	rs113994136	C	T
17	40485753	.	C	T
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17	40557021	.	C	T
17	40574965	.	C	G
17	40620064	rs545345712	C	T
17	40622211	.	G	A
17	40665915	.	C	T
17	40689486	.	C	T
17	40690710	.	G	A

17	40693015	.	T	G
17	40693137	.	G	A
17	40696050	.	C	T
17	40696107	rs146582131	C	T
17	40704980	.	G	A
17	40704997	.	G	A
17	40705021	.	G	C
17	40705046	.	A	C
17	40705469	.	G	C
17	40714989	.	G	C
17	40716056	.	C	G
17	40725339	.	C	A
17	40761168	.	C	T
17	40815025	.	C	T
17	40817826	.	C	T
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17	40840497	.	G	A
17	40845479	.	C	T
17	40914409	.	T	G
17	40936583	.	C	G
17	40946670	.	CCCAGA	C
17	40947996	.	G	C
17	40948242	.	C	T
17	40948304	rs200519604	C	T
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17	40986577	.	C	T
17	40997088	.	CG	C
17	40997475	.	G	C
17	40997697	.	C	T
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17	41004807	rs528557006	G	A
17	41053039	.	T	G
17	41106944	.	G	A
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17	41142918	.	C	G
17	41143410	rs145831322	G	C
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17	41165282	.	A	G
17	41168453	.	C	CA
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17	41170182	.	C	T
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17	41343459	.	C	T
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17	41369780	rs199901315	A	G
17	41477331	.	C	CG
17	41571093	.	C	T
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17	41720920	rs149570783	T	A
17	41847062	.	C	T
17	41886325	.	A	C
17	41888251	.	A	C
17	41925976	.	A	G
17	41958211	rs369632162	C	T
17	41975630	.	C	A
17	42085890	.	G	T
17	42090430	.	G	A
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17	42249560	.	G	A
17	42254197	.	G	A
17	42268150	.	T	C
17	42284625	.	G	C
17	42284914	.	C	G
17	42285237	.	A	C
17	42287036	.	C	G
17	42335037	.	G	A
17	42336885	.	T	G
17	42398489	.	CCT	C
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17	42433400	.	C	T
17	42461942	.	C	T
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17	42478406	.	C	T
17	42478517	.	C	T
17	42478528	.	T	C
17	42635117	rs147715817	G	T
17	42635495	.	G	C
17	42635532	.	G	T
17	42635843	.	G	A
17	42636455	.	G	A
17	42734622	.	C	T
17	42745461	.	G	A
17	42750824	.	A	G
17	42751398	.	C	T
17	42808373	.	T	C
17	42818757	.	T	C
17	42828292	.	C	T
17	42853507	.	G	A

17	42855154	.	C	A
17	42931983	.	C	T
17	42982346	.	A	AGGCT
17	43005619	.	C	A
17	43010311	.	T	C
17	43102006	.	G	A
17	43111674	.	C	T
17	43111688	rs9900173	G	GCAAGACCT(
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17	43174506	.	C	T
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17	43191674	.	C	T
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17	43213564	.	C	A
17	43220857	.	G	A
17	43226648	.	G	A
17	43226690	.	A	G
17	43226769	.	C	G
17	43227204	.	A	G
17	43227353	.	G	A
17	43227390	.	G	C
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17	43313594	.	G	A
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17	43323956	.	C	T
17	43333745	.	C	T
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17	43483066	.	G	C
17	43515249	.	TA	T
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17	43911163	rs200468311	A	T
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17	43922418	.	T	TC
17	43922661	.	C	G
17	43923284	.	T	C
17	43923431	.	G	A
17	43923641	.	G	T
17	43923723	.	T	G
17	43923792	.	G	T
17	44061297	.	G	A
17	44061298	.	T	A
17	44101491	rs63750991	C	T
17	44803978	.	C	T
17	45008558	.	G	T
17	45199904	.	T	G
17	45291225	.	A	G
17	45291239	.	G	A
17	45300394	.	A	G

17	45412656	.	T	C
17	45419383	.	C	A
17	45438864	.	T	C
17	45452101	.	C	T
17	45481274	.	T	G
17	45689913	.	G	A
17	45773530	.	G	C
17	45787912	rs375627706	C	G
17	45811285	.	AG	A
17	45811289	.	ATG	A
17	45821909	.	C	T
17	45886242	.	C	T
17	45886324	.	C	T
17	45891029	.	T	C
17	45914267	.	C	G
17	45917584	.	TC	T
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17	45994026	.	G	A
17	45994086	.	A	G
17	45994461	.	T	G
17	46024041	.	C	T
17	46030386	.	T	G
17	46030493	.	A	C
17	46052666	.	A	G
17	46136816	.	A	T
17	46262086	.	T	C
17	46423368	.	C	A
17	46620942	.	C	G
17	46628051	.	C	A
17	46628199	.	G	T
17	46654107	.	T	C
17	46655650	.	T	C
17	46670900	.	A	G
17	46670945	.	A	G
17	46673961	.	C	A
17	46688136	.	C	A
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17	46878913	.	G	A
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17	46939668	.	T	G
17	46993496	.	A	G
17	47038266	.	G	A
17	47038272	.	T	G
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17	47118790	.	G	A
17	47120863	.	C	G
17	47241620	.	A	T
17	47243569	.	A	G
17	47299486	.	C	T
17	47299527	.	C	T
17	47376022	.	G	A
17	47590270	.	A	G
17	47684664	.	T	G
17	47780342	.	C	T
17	47780603	.	G	C
17	47925310	.	C	T
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17	48195616	.	T	C
17	48246614	.	T	C
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17	48356236	.	A	T
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17	48453445	.	G	C
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17	48539024	.	G	A
17	48542681	.	G	A
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17	48543209	.	C	A
17	48545960	.	C	T
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17	48593961	.	C	T
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17	48596407	.	G	A
17	48606392	.	G	A
17	48608722	.	T	G
17	48613969	.	T	A
17	48614138	.	T	C
17	48614150	.	T	C
17	48614339	rs200793517	G	T
17	48615556	.	A	G
17	48618333	.	G	T
17	48626193	.	G	T
17	48626311	.	A	G

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17	48669206	.	G	A
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17	48685311	.	C	A
17	48692799	.	C	A
17	48699055	rs201565895	C	T
17	48735837	.	GT	G
17	48750831	rs200429903	C	T
17	48776878	.	A	C
17	48777992	.	T	A
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17	48917394	.	G	C
17	48917979	.	C	T
17	48917986	rs371325202	G	A
17	48940429	rs199928565	T	A
17	48940469	.	T	C
17	48940609	.	TGTGGTGGT	T
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17	49062328	.	A	C
17	49071127	.	G	A
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17	49119002	.	G	A
17	49197906	.	G	T
17	49244304	.	T	C
17	49270356	.	G	A
17	49272629	.	T	C
17	49357416	.	T	G
17	49374336	.	T	C
17	49731036	.	G	A
17	51900512	.	C	T
17	51900612	.	T	G
17	51901050	.	G	C
17	51901069	.	G	C
17	51901332	.	T	C
17	51901835	.	T	C
17	51902354	rs182252239	G	T
17	52978252	.	A	G
17	52982860	.	G	T
17	53063621	.	T	C
17	53068276	rs114932150	G	T
17	53076736	.	G	C
17	53150406	.	C	T

17	53158527	.	C	T
17	53499052	.	C	T
17	54535288	.	C	G
17	54872480	rs148745959	C	G
17	55019416	rs140510267	C	T
17	55038288	.	G	T
17	55068506	.	T	G
17	55072347	.	G	A
17	55078230	.	G	A
17	55182841	.	C	T
17	55184204	.	C	T
17	55184351	.	A	G
17	55191876	rs61731971	C	CG
17	55193507	.	G	A
17	55195751	.	A	T
17	55950056	.	C	T
17	55950081	.	C	T
17	55962616	.	C	T
17	56052153	.	A	G
17	56083773	.	C	T
17	56274607	.	G	A
17	56276457	.	C	T
17	56276909	rs370348017	T	A
17	56283519	rs199910690	C	G
17	56283887	.	C	T
17	56327862	.	G	A
17	56332285	.	G	C
17	56350961	.	A	T
17	56355365	.	A	G
17	56357280	.	G	A
17	56382421	.	C	A
17	56382499	.	A	G
17	56384228	.	G	T
17	56387444	.	C	T
17	56387910	.	C	T
17	56393462	.	G	T
17	56395695	.	G	T
17	56397489	.	G	A
17	56405155	.	C	T
17	56428820	.	A	G
17	56435734	.	G	C
17	56540499	.	C	T
17	56557376	.	G	A
17	56572496	.	G	T
17	56585893	rs370947346	G	A
17	56599128	.	G	A
17	56599129	.	T	C
17	56599412	.	CG	C

17	56620765	.	C	G
17	56676345	.	G	GGCCAGAGG
17	56679837	.	G	T
17	56682339	.	C	T
17	56770093	.	C	T
17	57057410	.	A	T
17	57057703	.	C	T
17	57057785	.	G	T
17	57196674	.	C	T
17	57196720	.	A	G
17	57196764	.	C	G
17	57247170	.	CA	C
17	57247170	.	C	CA
17	57262521	.	A	G
17	57275067	.	A	G
17	57287422	.	C	T
17	57288041	.	T	G
17	57288188	.	G	A
17	57290742	.	ACT	A
17	57334510	.	G	C
17	57334527	.	G	C
17	57334534	.	T	G
17	57430804	.	G	T
17	57647902	.	G	A
17	57955466	.	A	C
17	57955583	.	A	C
17	58144794	.	C	A
17	58144916	.	C	G
17	58234893	.	G	A
17	58313500	.	T	C
17	58329778	.	C	T
17	58503586	.	C	A
17	58503593	.	G	T
17	58506841	.	G	A
17	59112110	.	G	A
17	59155877	.	C	A
17	59445754	rs375102707	G	A
17	59485577	.	C	A
17	59485644	.	C	T
17	59489682	.	C	T
17	59560359	.	G	C
17	59668261	.	A	G
17	59668387	.	C	T
17	59763508	.	C	T
17	59926518	.	C	A
17	59945338	.	T	TA
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17	60753755	.	C	T

17	60758426	.	T	C
17	60768006	.	G	A
17	60799875	.	A	G
17	60814265	.	TC	T
17	61345214	.	G	T
17	61488985	.	C	G
17	61492991	.	G	A
17	61497691	.	C	T
17	61497817	.	A	G
17	61499063	.	A	G
17	61514793	.	C	T
17	61560877	.	C	T
17	61560877	.	C	A
17	61562630	.	T	C
17	61566412	.	G	A
17	61571822	.	C	T
17	61607538	.	C	G
17	61611574	.	C	T
17	61613078	.	G	A
17	61613169	.	G	A
17	61613417	.	A	G
17	61723397	.	G	A
17	61744358	.	C	G
17	61762952	.	T	A
17	61766169	.	G	A
17	61790816	.	G	A
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17	61829767	.	G	C
17	61841412	.	G	A
17	61841523	.	C	A
17	61864546	.	C	T
17	61869806	rs150380771	G	T
17	61877850	.	C	T
17	61882516	.	G	A
17	61889475	.	C	T
17	61895375	.	G	A
17	61898405	.	G	A
17	61899127	.	T	C
17	61908449	.	A	C
17	61910523	.	G	C
17	61910527	.	T	G
17	61910735	.	C	A
17	61911623	.	GGCCCTCGT	G
17	61911673	.	A	T
17	61912115	.	C	T
17	61912911	.	C	T
17	61958136	.	A	G
17	61958148	.	A	G

17	62008742	.	T	G
17	62019139	.	C	T
17	62019144	.	C	T
17	62019281	rs374074988	C	T
17	62021180	.	C	T
17	62034874	rs121908557	C	T
17	62080284	.	C	G
17	62084002	.	A	G
17	62122281	.	C	T
17	62122725	.	G	T
17	62130286	.	C	T
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17	62131714	.	G	A
17	62248472	.	C	A
17	62248517	.	T	C
17	62248518	.	G	T
17	62290133	.	C	G
17	62290986	rs201453522	C	T
17	62487064	.	A	G
17	62496154	.	C	T
17	62499583	.	G	C
17	62506377	.	G	A
17	62525473	.	C	CA
17	62525523	.	A	T
17	62533719	.	A	G
17	63010636	.	G	C
17	63049822	.	C	A
17	63052453	.	T	C
17	63052465	.	C	A
17	63532616	.	C	T
17	63537616	.	C	T
17	63545641	.	C	G
17	63637134	.	G	C
17	63739304	.	G	A
17	63898378	.	GC	G
17	63957586	.	C	T
17	64049880	.	C	CT
17	64059160	.	GTC	G
17	64173015	.	C	A
17	64210714	.	A	T
17	64210748	.	T	C
17	64880659	.	C	T
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17	65027101	.	G	C
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17	65040915	.	G	A

17	65051231	.	C	T
17	65082984	.	T	C
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17	65147253	.	C	G
17	65186377	.	G	A
17	65199441	.	C	A
17	65688826	.	G	C
17	65688973	.	C	A
17	65714180	.	C	A
17	65720292	.	T	G
17	65732028	.	G	A
17	65735073	.	A	G
17	65988064	rs574887136	G	C
17	65989075	.	C	T
17	66033286	.	G	A
17	66039228	.	C	G
17	66246451	.	C	G
17	66246476	.	C	T
17	66251872	.	GA	G
17	66251875	.	TGCGACAC	T
17	66426250	.	C	T
17	66865912	.	G	A
17	66877307	.	G	A
17	66877325	.	T	C
17	66878067	.	CT	C
17	66878774	.	GT	G
17	66899575	.	C	T
17	66914235	.	A	G
17	66914239	.	G	A
17	66914305	.	T	C
17	66914579	.	C	T
17	66928513	.	T	A
17	66928596	.	C	G
17	66928600	.	A	G
17	66936958	.	G	C
17	66988370	.	C	T
17	67016668	.	C	T
17	67025349	.	CTTTTT	C
17	67031801	.	C	G
17	67040638	.	T	G
17	67077266	.	T	C
17	67080403	.	A	C
17	67094122	.	A	G
17	67099047	.	C	T
17	67107067	.	T	C
17	67109867	.	T	C
17	67111603	rs142091347	C	T
17	67114074	.	T	C

17	67129947	.	G	C
17	67129998	.	T	C
17	67144968	.	T	G
17	67148503	.	C	A
17	67153012	.	T	C
17	67183879	.	G	A
17	67189990	.	T	C
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17	67215902	.	T	C
17	67247976	.	T	A
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17	67264181	.	A	T
17	67280186	.	G	T
17	67282090	.	C	T
17	67285373	.	C	G
17	67286033	.	TTTGA	T
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17	67298870	.	C	T
17	67304422	.	T	G
17	67305508	.	TAGAG	T
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17	68128862	.	G	T
17	68128997	.	A	T
17	68171958	.	C	T
17	68172357	.	G	T
17	70644967	.	C	T
17	71084876	.	G	A
17	71165691	rs370725142	C	T
17	71205704	.	G	C
17	71231754	.	A	C
17	71238415	.	A	T
17	71238489	.	A	C
17	71243457	.	C	T
17	71248799	.	C	A
17	71248862	.	C	T
17	71253943	.	C	G
17	71257912	.	C	G
17	71281717	rs372995454	C	A
17	71282069	.	G	C
17	71282380	.	T	C
17	71346832	.	G	C
17	71348659	.	T	C
17	71348713	.	C	G
17	71357853	.	C	T
17	71415414	.	G	A
17	71419642	.	C	T
17	72239517	.	C	A
17	72249925	rs114644256	C	A

17	72322493	.	A	C
17	72340368	.	A	G
17	72356247	rs571887144	C	T
17	72366758	rs367809661	T	C
17	72366783	.	T	C
17	72368159	.	C	T
17	72436118	rs201753558	C	A
17	72436346	.	T	A
17	72436889	.	A	C
17	72576151	.	CT	C
17	72576151	.	C	G
17	72608881	rs113824696	C	T
17	72700722	.	C	A
17	72738412	.	A	C
17	72741459	rs150021744	G	C
17	72758178	.	A	C
17	72758211	rs373243340	C	A
17	72758211	rs373243340	C	G
17	72768122	.	A	G
17	72769822	.	T	C
17	72771771	.	G	T
17	72791226	.	C	T
17	72791733	.	G	C
17	72842243	.	C	T
17	72842972	.	G	A
17	72843053	.	G	A
17	72860158	rs35660143	G	T
17	72860680	.	G	A
17	72877286	rs373051879	C	A
17	72877309	.	G	C
17	72937905	.	G	A
17	72938054	.	C	G
17	72939713	.	G	A
17	72939718	.	C	A
17	72942820	.	C	G
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17	72943484	.	G	A
17	72945386	.	G	T
17	72945455	.	G	A
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17	73043637	.	C	G
17	73096797	.	G	A
17	73106603	.	A	T
17	73221497	.	T	C
17	73227681	.	A	G
17	73230761	.	G	C
17	73234390	.	G	T
17	73234455	.	G	A

17	73235099	rs76982026	C	G
17	73237015	.	G	C
17	73237738	.	A	G
17	73238934	.	A	T
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17	73240764	.	C	T
17	73262984	.	C	G
17	73481988	.	C	G
17	73482007	.	G	T
17	73484092	.	G	T
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17	73488854	.	G	C
17	73490816	rs201535641	G	A
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17	73493196	.	C	G
17	73495075	.	G	A
17	73495163	.	G	C
17	73564894	.	AC	A
17	73564904	.	G	T
17	73568033	.	A	T
17	73625213	rs201921330	T	C
17	73625228	.	T	C
17	73627597	.	AG	A
17	73627670	.	G	T
17	73647302	.	G	A
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17	73658785	.	C	A
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17	73702557	.	G	A
17	73748302	rs121912467	C	T
17	73748390	.	G	A
17	73759174	.	C	T
17	73809263	.	C	T
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17	73897094	.	C	T
17	73909847	.	G	T
17	73916104	.	T	C
17	73934136	.	C	T
17	73934152	.	T	C
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17	73952019	.	G	A
17	73999313	.	T	C
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17	74004032	.	C	A
17	74004095	.	G	T

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17	74005694	rs368923796	C	T
17	74005930	.	C	A
17	74006203	.	A	G
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17	74013952	.	C	G
17	74018498	.	C	T
17	74060163	.	C	T
17	74071167	.	G	T
17	74073235	.	C	G
17	74077789	.	C	T
17	74080337	rs145062268	G	A
17	74097431	.	A	T
17	74097871	rs144068878	G	A
17	74157701	.	G	A
17	74157704	rs371381620	C	T
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17	74328508	.	T	A
17	74383466	rs181641248	C	G
17	74387605	.	A	G
17	74392512	.	A	G
17	74393918	.	C	A
17	74394989	.	T	C
17	74398692	.	T	C
17	74464852	.	CCT	C
17	74465303	.	G	C
17	74475072	.	C	G
17	74527747	.	T	C
17	74562349	.	C	G
17	74564879	.	C	G
17	74622169	.	G	T
17	74623203	.	ATGCCCCCG	A
17	74623523	.	A	G
17	74623535	.	A	G
17	74673769	.	C	A
17	74684491	rs568775796	C	T
17	74684530	.	C	G
17	74684603	.	A	C
17	74684674	.	C	T
17	74719934	.	C	T
17	74719938	.	G	A
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17	74729198	.	C	T
17	74729472	.	G	A
17	74729604	.	G	T
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17	74763531	.	C	T
17	74869016	.	G	A
17	74902157	.	G	A
17	74936821	.	C	G
17	74942512	rs148706236	C	G
17	75192307	.	A	G
17	75208080	.	G	A
17	75212634	.	G	T
17	75398455	.	G	A
17	75398722	.	C	T
17	76067197	.	C	T
17	76075544	.	GCCACAGCC	G
17	76083070	.	C	T
17	76094594	.	G	A
17	76098588	.	C	T
17	76098602	.	G	A
17	76142975	.	C	T
17	76157182	.	A	G
17	76167926	.	A	G
17	76187109	.	C	A
17	76198583	.	C	T
17	76200932	.	C	A
17	76201556	.	C	T
17	76202087	.	G	C
17	76354621	.	C	T
17	76354758	.	G	A
17	76354933	.	G	A
17	76394334	.	T	C
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17	76410960	.	G	T
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17	76420175	.	G	A
17	76423113	.	G	A
17	76423123	rs142613771	C	T
17	76424635	.	C	T
17	76424733	.	CCATA	C
17	76433927	.	C	T
17	76440749	.	G	A
17	76440760	.	C	T
17	76446377	rs2289752	C	A
17	76446470	.	C	T
17	76446780	rs375287829	C	CT
17	76446846	.	G	A
17	76449483	.	C	T

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17	76456284	.	G	T
17	76471379	.	T	C
17	76481799	.	T	C
17	76490119	.	T	G
17	76490802	.	A	T
17	76492082	.	C	A
17	76495163	.	T	A
17	76497268	.	G	T
17	76503630	.	G	C
17	76503673	.	G	A
17	76503809	rs548113544	G	A
17	76525611	.	G	C
17	76526514	.	G	C
17	76547694	.	G	A
17	76570941	.	C	T
17	76696428	rs138054490	C	T
17	76705763	.	C	T
17	76705771	.	G	C
17	76798554	.	CTT	C
17	76799889	.	G	C
17	76803097	.	G	A
17	76803591	.	C	T
17	76816052	.	C	T
17	76832393	.	G	A
17	76886817	.	C	T
17	76886826	.	T	A
17	76887463	.	C	T
17	76888007	.	C	G
17	76888114	.	G	A
17	76888334	.	T	A
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17	76967903	rs374944167	C	G
17	76967946	.	C	G
17	76968026	.	G	C
17	76968550	.	G	A
17	76970792	.	G	T
17	76991292	.	C	T
17	77043634	.	C	T
17	77044095	.	C	G
17	77076396	.	C	T
17	77077080	.	G	T
17	77077100	.	A	C
17	77078085	.	C	G
17	77078104	.	G	A
17	77078126	.	GC	G

17	77079177	.	A	G
17	77082086	.	G	T
17	77082175	.	G	C
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17	77709059	.	G	A
17	77757649	.	G	A
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17	77757946	.	C	G
17	77758606	.	T	G
17	77768601	.	C	T
17	77921559	.	G	A
17	77984089	.	C	G
17	78039315	.	A	G
17	78078873	.	A	T
17	78084625	.	G	A
17	78085824	rs576056187	C	T
17	78109846	.	G	C
17	78115125	.	A	G
17	78184570	.	G	A
17	78188543	.	A	AC
17	78197077	.	C	G
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17	78226502	.	T	G
17	78320641	.	C	T
17	78343364	.	T	G
17	78358852	.	G	A
17	78447115	.	G	T
17	78796098	.	C	T
17	79095796	.	G	A
17	79108257	.	C	T
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17	79168771	.	T	C
17	79219797	.	C	G
17	79220804	.	T	A
17	79257241	.	A	AC
17	79478273	.	A	G
17	79478485	rs143851458	A	T
17	79479149	.	C	G
17	79479155	.	C	G
17	79479155	.	C	A
17	79496180	.	C	A
17	79496282	.	G	A
17	79503257	rs376890749	A	C
17	79503731	.	C	A
17	79508358	.	G	A
17	79511118	.	C	T
17	79514412	.	T	C
17	79514436	.	A	G

17	79514445	.	C	G
17	79514535	.	C	T
17	79514672	rs550951998	C	T
17	79517705	.	A	G
17	79517706	.	C	A
17	79567372	.	G	C
17	79573731	.	T	C
17	79612610	.	T	C
17	79612640	.	A	T
17	79618141	.	A	G
17	79620197	.	C	T
17	79634823	.	C	G
17	79638823	.	G	A
17	79650764	.	G	T
17	79654085	.	C	T
17	79655741	.	T	C
17	79660588	.	A	G
17	79662828	.	A	G
17	79663894	.	C	T
17	79667614	.	C	T
17	79673994	.	C	G
17	79674208	.	G	A
17	79682620	.	G	A
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17	79792726	.	A	G
17	79803472	.	T	A
17	79805133	.	C	T
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17	79954622	.	G	T
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17	79986504	.	A	G
17	79991634	.	G	A
17	79994180	rs140187930	C	G
17	79994460	.	G	T
17	79994489	.	C	T
17	80008326	.	G	C
17	80010208	rs373403707	C	T
17	80014953	.	G	T
17	80016285	.	C	G
17	80019535	.	C	T
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17	80049108	.	G	C
17	80053301	.	T	C
17	80054228	.	T	C
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17	80194632	.	G	A
17	80195514	.	G	T
17	80274708	.	G	A
17	80356186	.	C	T
17	80364294	.	C	G
17	80377696	.	T	G
17	80395124	.	A	G
17	80398881	.	G	T
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17	80401993	.	C	T
17	80403773	.	G	A
17	80443410	.	G	A
17	80585140	.	T	G
17	80622394	.	G	A
17	80680732	rs146131242	C	CGTGGT
17	80684376	.	C	A
17	80684396	rs149116457	G	C
17	80684827	.	C	A
17	80708504	.	C	A
17	80721921	.	C	G
17	80788394	.	G	A
17	80789957	.	C	T
17	80858553	.	A	T
17	80890535	.	G	T
17	81042826	rs372664802	C	G
17	81043043	.	G	A
17	81043064	.	G	A
18	215458	.	T	C
18	224147	rs377169666	C	T
18	224148	.	G	A
18	252587	.	A	G
18	346831	.	C	A
18	580853	rs114933134	G	T
18	619314	.	C	T
18	624925	.	C	T
18	670782	rs201232749	C	T
18	677823	.	T	G
18	688592	.	A	G
18	690599	.	A	T
18	739749	.	C	G
18	2544212	rs367990420	G	A
18	2544262	.	G	A
18	2544286	.	CTAAT	C

18	2547503	.	T	C
18	2554782	rs183140092	C	T
18	2563796	.	C	G
18	2566891	.	G	A
18	2575050	.	C	T
18	2890622	.	C	A
18	2890678	.	C	G
18	2891036	.	C	T
18	2891146	.	A	C
18	2908973	.	G	A
18	2913193	.	T	G
18	2951081	.	C	T
18	3086044	.	TA	T
18	3086057	.	TATACC	T
18	3094257	.	G	A
18	3135613	.	C	T
18	3135719	.	C	T
18	3879203	rs200818770	C	T
18	5291854	rs144136246	C	T
18	5395657	.	G	A
18	5397065	.	G	A
18	5406807	.	G	T
18	5407731	.	T	A
18	5419724	rs200213263	G	A
18	5478397	.	T	G
18	6171869	.	C	T
18	6824856	.	T	C
18	6896543	.	C	G
18	6947281	.	T	A
18	7017285	.	G	A
18	7050869	.	C	A
18	7231423	.	T	A
18	7231534	rs202108131	C	T
18	7231947	.	A	G
18	7955167	.	C	T
18	8378285	.	A	G
18	8394479	.	G	T
18	8718603	.	A	G
18	8777860	.	A	T
18	8783695	.	A	C
18	8783803	.	G	C
18	8784018	.	C	T
18	8784152	.	C	G
18	8784266	.	G	A
18	8784332	rs200169088	C	T
18	8784390	.	G	C
18	8784697	.	C	G
18	8793081	.	A	C

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18	8819096	.	G	T
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18	8824854	.	T	A
18	8825160	.	A	G
18	8825247	.	C	T
18	8828931	.	C	T
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18	9221989	.	G	A
18	9254380	.	A	T
18	9254557	.	A	G
18	9254878	.	T	C
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18	9258099	.	A	G
18	9258791	.	A	G
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18	9525833	.	G	T
18	9550340	.	C	T
18	9570175	.	A	G
18	9584547	.	C	G
18	9845625	rs201871168	G	A
18	9887845	.	G	A
18	9887966	.	A	G
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18	10485720	.	C	T
18	10485771	.	G	C
18	10487770	.	T	C
18	10539859	.	G	A
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18	11851904	.	A	G
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18	12012195	.	G	A
18	12274141	.	C	T
18	12274248	.	T	C
18	12367069	.	C	T
18	12463390	.	C	T
18	12463487	rs150770551	G	C
18	12496085	.	G	A
18	12546756	.	A	G
18	12678334	.	A	G
18	12678373	.	T	C
18	12691438	.	C	T
18	12691438	.	C	G

18	12718574	.	C	T
18	12724591	.	T	G
18	12817224	rs141927482	C	A
18	12978812	.	G	A
18	12978836	.	C	T
18	13095503	.	G	A
18	13100458	.	A	G
18	13124687	.	T	C
18	13621134	.	A	G
18	13645195	.	C	G
18	13746333	.	G	C
18	13752349	.	A	G
18	13754131	.	G	A
18	13759952	.	G	T
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18	13826535	.	T	A
18	13884734	.	C	T
18	13885438	rs28926178	G	A
18	18550326	.	C	T
18	18562732	.	A	G
18	18562792	.	G	A
18	18572815	.	C	A
18	18588046	.	T	A
18	18595399	.	T	A
18	19112591	.	C	G
18	19153405	.	T	A
18	19153550	.	G	C
18	19236905	.	GCA	G
18	20562233	.	C	A
18	20573268	rs200056784	T	C
18	20602122	.	G	A
18	20602158	rs147143633	C	T
18	20817151	.	A	G
18	20833749	.	C	T
18	20833869	.	T	G
18	20950213	.	AT	A
18	21053571	.	GA	G
18	21099107	.	A	G
18	21110535	.	A	G
18	21113364	.	C	CAA
18	21121287	.	C	G
18	21121374	.	C	T
18	21128055	.	C	T
18	21134827	.	C	T
18	21134863	rs201226297	G	A
18	21192060	.	T	C
18	21402219	.	GA	G

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18	21660893	.	C	G
18	21735917	.	C	T
18	21736283	.	A	G
18	21736459	.	C	G
18	21739512	.	T	A
18	21739636	.	G	A
18	21739681	.	G	C
18	21883645	.	A	G
18	21894285	.	G	T
18	21897355	.	A	C
18	21912996	.	G	C
18	22023093	.	G	A
18	22057243	.	G	T
18	22057275	.	C	G
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18	29172910	.	C	T
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18	29788097	.	T	G
18	29788195	.	G	A
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18	30517989	rs370055815	C	A
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18	30926346	rs372712799	T	C
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18	32438286	.	C	T
18	32444003	.	G	C
18	32822610	.	A	T
18	32823241	.	C	G
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18	32833851	.	T	C
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18	43204781	.	T	G
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18	43262425	rs368750242	C	T
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18	44579358	.	G	A
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18	44595598	.	A	C
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18	45567082	rs200362895	C	G
18	46190912	rs577725475	G	A
18	46287793	.	G	C
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18	47008741	rs144700640	C	T
18	47018003	.	C	T
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18	47802028	.	C	T
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18	51863529	.	A	G
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18	52265266	.	A	G
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18	54353229	.	T	C
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18	54424007	.	A	T
18	54424217	.	A	G
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18	55996244	rs202231187	C	G
18	56191193	.	G	T
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18	56246599	.	C	T
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18	59217391	.	C	T
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18	59895830	.	A	G
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18	61233933	.	A	C
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18	61306502	rs144756198	C	G
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18	61387283	.	A	G
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18	64235717	.	A	T
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18	65180434	.	T	C
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18	72913451	.	C	T
18	74090908	rs377424746	C	A
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18	77208834	rs202124742	C	T
18	77211814	.	C	T
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18	77477932	.	C	A
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18	77896531	.	C	T
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19	287679	.	C	T
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19	372694	.	G	A
19	374336	.	C	T
19	440914	rs139357360	C	G
19	504796	rs149092655	C	G
19	549637	.	C	G
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19	577959	.	T	G
19	582324	.	C	A
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19	726152	.	A	G
19	746302	.	G	A
19	746370	rs142498012	C	G
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19	761628	.	G	A
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19	815742	.	G	A

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19	829602	rs553083435	C	G
19	830802	.	C	G
19	831752	.	G	T
19	856000	rs137854451	G	A
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19	1005502	.	A	G
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19	1008696	.	C	T
19	1014417	.	G	A
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19	1073589	.	C	T
19	1085788	.	A	T
19	1085895	.	A	G
19	1105267	.	T	C
19	1105280	.	G	C
19	1123542	.	G	C
19	1231104	.	C	G
19	1244137	.	C	T
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19	1357090	.	A	G
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19	1360327	.	C	T
19	1360445	.	C	A
19	1465855	.	C	T
19	1465918	.	G	T
19	1495361	.	G	A
19	1495565	.	G	A
19	1496366	.	T	G
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19	1800257	.	C	T
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19	1806116	rs567130127	G	A

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19	1819990	.	C	T
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19	1918158	.	G	A
19	1924137	.	A	G
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19	2041160	.	G	A
19	2041161	.	G	A
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19	2097137	.	C	T
19	2194529	.	T	C
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19	2427491	.	C	A
19	2431616	rs377036714	C	G
19	2433862	rs187964885	C	T
19	2434456	.	C	T
19	2434489	.	G	C
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19	2796130	.	C	T
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19	2811619	rs149603131	G	A
19	2811644	.	C	T
19	2834302	.	T	C

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19	2852938	.	C	G
19	2853053	.	C	G
19	2853099	.	G	C
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19	2853439	.	A	G
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19	3547479	rs375807661	G	C

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19	3728677	rs150589606	G	A
19	3730653	rs149642887	G	A
19	3733803	rs192628262	T	C
19	3736231	.	G	A
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19	3739087	.	G	A
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19	3740763	.	T	A
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19	4280182	.	A	T
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19	16437800	.	G	C
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19	16591444	.	G	A
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19	16620782	.	C	T
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19	16860409	.	T	G
19	16860827	.	C	G
19	16905319	.	G	T
19	16963928	.	G	A
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19	17295734	.	A	G
19	17296742	.	A	C
19	17305988	.	C	T
19	17312817	.	C	T
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19	17395032	.	G	C
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19	17476643	.	G	A
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19	17514589	.	T	C
19	17516356	.	C	T
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19	17691560	.	C	T
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19	18893872	rs138174876	C	T
19	18893986	.	C	T
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19	19112468	.	C	T
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19	19231881	.	A	G
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19	19360629	.	A	G
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19	19790945	.	A	T
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19	19822887	.	A	C
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19	22585674	.	G	C
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19	23836158	.	T	A
19	23927991	.	T	TGCAC
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19	30165017	.	C	T
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19	31040286	.	G	C
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19	32845504	.	G	A

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19	33430767	.	A	T
19	33464393	.	C	T
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19	33464985	.	T	C
19	33467446	.	T	C
19	33579151	.	T	C
19	33588728	.	A	G
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19	33603461	.	G	C
19	33603494	.	T	G
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19	33666453	.	C	T
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19	33698476	rs61736046	T	G
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19	33701754	.	A	G
19	33892707	.	C	T
19	34263307	.	G	C
19	34791676	.	C	G
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19	34818417	.	C	G
19	34838788	.	C	G
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19	34884165	.	C	G
19	35085171	rs111703470	G	A
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19	36128203	rs200606521	G	C
19	36135713	rs369767060	C	A
19	36159481	rs79704093	C	A
19	36164200	.	C	T
19	36166784	.	T	C
19	36166789	rs200321267	G	GA
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19	37309591	.	T	C
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19	37309936	.	A	C
19	37309976	.	A	G
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19	37643864	.	G	C
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19	37733940	.	A	G
19	37853215	.	G	A
19	37853670	.	G	A
19	37853830	.	C	T
19	37853844	.	A	G
19	37854091	.	G	C
19	37879214	.	A	G
19	37975731	.	C	T
19	37975741	rs139661126	G	T
19	38028292	.	G	T
19	38028474	.	A	G
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19	38229892	.	C	T
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19	38230260	.	C	A
19	38230359	.	G	C
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19	38377809	.	G	A
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19	38384455	.	C	G
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19	38385238	.	G	C
19	38385768	.	A	T
19	38579486	.	C	T
19	38798286	.	C	A
19	38799490	.	C	T
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19	38873893	.	C	T
19	38876307	.	C	T
19	38901575	.	T	G
19	38903659	rs201088850	G	A
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19	38933047	rs368516354	G	A
19	38935306	.	G	A
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19	39306592	.	C	T
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19	39398156	.	A	G
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19	39433347	.	T	TA
19	39589732	.	G	A
19	39591441	.	A	G
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19	39691080	.	GC	G
19	39760261	.	C	T

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19	39819624	.	C	T
19	39823719	.	G	A
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19	39876825	rs146793593	C	A
19	39880294	.	C	T
19	39880307	.	G	C
19	39897560	.	A	G
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19	39899284	.	C	T
19	39907531	.	C	T
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19	39955549	.	C	T
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19	39976854	.	C	T
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19	40354433	.	C	T
19	40360930	.	G	C
19	40362826	rs200122375	C	G
19	40363051	.	T	C
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19	40421154	.	C	A
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19	40520417	.	G	A
19	40520768	.	G	A
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19	40521282	.	T	G
19	40541688	.	G	T
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19	40832326	.	C	G
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19	40947693	.	G	A
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19	41306728	.	A	G
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19	41497275	rs375553471	G	C
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19	41518221	rs28399499	T	G
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19	42132329	rs139799036	G	T
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19	42585147	.	G	T
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20	30232652	.	C	A
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20	30897908	.	C	T
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20	42355018	.	A	C
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20	45865210	.	G	C
20	45867680	.	C	A
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20	46265480	.	A	G
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20	47679789	.	C	G
20	47683782	.	G	A
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20	47732328	.	G	A
20	47733721	.	G	A
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20	47740989	.	G	C
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20	47849931	.	A	G
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20	48431562	.	C	T
20	48481357	.	C	T
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20	48562714	rs150079671	C	G
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20	48600808	.	C	T
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20	49367008	.	A	G
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20	49565186	.	C	T
20	49575674	.	C	T
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20	49620727	.	G	A
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20	50769622	.	G	A
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20	51870774	.	G	T
20	51870795	.	G	A
20	51871474	.	G	C
20	51872138	.	G	C
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20	52193085	.	G	A
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20	52198953	.	C	G
20	52199044	rs369417236	G	A
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20	52569993	.	A	T
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20	54824114	.	C	G
20	54824350	.	C	T
20	54824428	.	G	A
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20	54824774	.	C	T
20	54961495	.	C	T
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20	61490773	.	G	C
20	61512621	.	C	G
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20	61524220	.	C	T
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20	61541138	.	C	A
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20	61835126	.	G	C
20	61867717	rs139712930	G	T
20	61870550	.	G	T
20	61917733	.	A	G
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22	25250991	.	A	G
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22	25251573	.	G	C
22	25251576	.	T	C
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22	25263109	.	C	G
22	25270380	.	A	G
22	25293955	.	A	C
22	25293958	.	A	C
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22	26091165	.	T	G
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22	26422845	.	C	A
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22	26829889	.	A	G
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22	36662035	rs190804942	C	T
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X	17819557	.	A	G
X	17819743	.	C	T
X	18189234	.	C	T
X	18626947	.	C	T
X	18919635	.	C	T
X	19017273	.	T	G
X	19022909	.	A	G
X	19025424	.	C	T
X	19587293	.	T	C
X	19973664	.	G	A
X	19983231	.	G	A
X	19984726	.	T	C
X	20029078	.	C	T
X	20082858	.	C	G
X	21874673	.	A	G
X	21875611	.	G	T
X	22291226	.	G	T
X	22292120	.	C	T
X	22292364	rs111333157	A	G
X	23018977	.	C	T
X	23019150	.	A	G
X	23019759	.	C	T
X	23353208	.	C	G
X	23412058	.	G	A
X	23723927	.	C	T
X	23801502	rs145980431	G	T
X	23802073	.	C	T
X	23803812	.	A	G
X	23953370	.	C	G
X	24197312	.	C	T
X	24545761	.	T	A
X	24759604	.	A	G
X	24763606	.	A	G
X	24828867	.	A	G
X	26157349	rs369144877	G	T
X	26157777	.	GA	G
X	26157919	.	C	T

X	26212229	.	A	G
X	26212283	.	A	C
X	26235659	.	A	G
X	27840324	.	A	C
X	30236765	.	G	A
X	30237212	.	A	T
X	30237500	.	C	G
X	30237500	.	C	T
X	30260320	.	A	C
X	30260626	.	A	G
X	30260976	.	C	T
X	30269197	.	C	G
X	30269478	.	G	A
X	34148288	.	T	G
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X	34149282	.	C	T
X	34149309	.	G	A
X	34149392	.	G	A
X	34149677	.	G	A
X	34149914	.	T	C
X	34150316	.	G	C
X	34657436	.	C	A
X	34961468	rs369737472	G	C
X	34961525	.	G	A
X	34961637	rs200166679	C	T
X	34962260	.	C	A
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X	35821121	.	C	A
X	36103528	.	G	A
X	36122622	rs368941497	G	T
X	36328959	.	G	T
X	36329076	.	A	C
X	36397548	.	C	A
X	37027177	.	T	A
X	37027739	.	C	T
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X	37028966	.	T	A
X	37312686	.	G	C
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X	37967899	.	C	T
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X	37981431	.	G	A
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X	54957331	rs202045355	A	G
X	54989723	rs372795411	G	A
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X	64936690	.	G	C
X	65247955	.	C	T
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X	65418793	.	A	G
X	65423340	.	A	C
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X	67937076	.	A	T
X	67943820	.	C	G
X	68725698	.	T	A
X	68725700	.	G	A
X	68749461	.	G	A
X	69421751	.	G	T
X	69421847	.	C	T
X	69421862	.	ACT	A
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X	70612510	.	C	T
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X	147106464	.	A	C
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X	151092227	rs61743686	C	G
X	151128398	.	C	G
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X	153698070	.	G	A

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X	153881555	.	C	G
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Type	Gene
structural_interaction_variant	SAMD11
structural_interaction_variant	SAMD11
structural_interaction_variant	NOC2L
structural_interaction_variant	NOC2L
structural_interaction_variant	NOC2L
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structural_interaction_variant	NOC2L
structural_interaction_variant	KLHL17
structural_interaction_variant	KLHL17
missense_variant&splice_region_variant	KLHL17
structural_interaction_variant	KLHL17
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structural_interaction_variant	C1orf170
splice_acceptor_variant&intron_variant	ISG15
structural_interaction_variant	ISG15
structural_interaction_variant	ISG15
structural_interaction_variant	AGRN
structural_interaction_variant	TTLL10
structural_interaction_variant	TTLL10
frameshift_variant	FAM132A
frameshift_variant	FAM132A
structural_interaction_variant	UBE2J2
structural_interaction_variant	SCNN1D
structural_interaction_variant	SCNN1D
structural_interaction_variant	ACAP3
structural_interaction_variant	ACAP3
structural_interaction_variant	PUSL1
structural_interaction_variant	CPSF3L
structural_interaction_variant	CPSF3L
structural_interaction_variant	CPSF3L
structural_interaction_variant	MXRA8
structural_interaction_variant	MXRA8
structural_interaction_variant	MXRA8
structural_interaction_variant	CCNL2
structural_interaction_variant	CCNL2
structural_interaction_variant	CCNL2
stop_gained	MRPL20
structural_interaction_variant	VWA1
structural_interaction_variant	VWA1
stop_gained	ATAD3B
structural_interaction_variant	MIB2
structural_interaction_variant	MIB2
structural_interaction_variant	SLC35E2B
stop_gained	CDK11A
structural_interaction_variant	CDK11A
structural_interaction_variant	NADK
structural_interaction_variant	NADK

stop_gained	NADK
structural_interaction_variant	CALML6
structural_interaction_variant	CALML6
structural_interaction_variant	CALML6
structural_interaction_variant	C1orf222
structural_interaction_variant	C1orf222
structural_interaction_variant	GABRD
structural_interaction_variant	PRKCZ
missense_variant&splice_region_variant	C1orf86
structural_interaction_variant	SKI
stop_gained	MORN1
structural_interaction_variant	MORN1
structural_interaction_variant	MORN1
structural_interaction_variant	MORN1
structural_interaction_variant	PLCH2
structural_interaction_variant	PANK4
structural_interaction_variant	TNFRSF14
structural_interaction_variant	TNFRSF14
structural_interaction_variant	TNFRSF14
structural_interaction_variant	FAM213B
structural_interaction_variant	FAM213B
structural_interaction_variant	MMEL1
structural_interaction_variant	MMEL1
structural_interaction_variant	ACTRT2
stop_gained	ACTRT2
structural_interaction_variant	ACTRT2
stop_gained	ACTRT2
structural_interaction_variant	ACTRT2
structural_interaction_variant	ARHGEF16
frameshift_variant	MEGF6
structural_interaction_variant	MEGF6
structural_interaction_variant	TPRG1L
structural_interaction_variant	TPRG1L
structural_interaction_variant	WRAP73
structural_interaction_variant	TP73
structural_interaction_variant	TP73
structural_interaction_variant	TP73
structural_interaction_variant	TP73
structural_interaction_variant	TP73
structural_interaction_variant	TP73
structural_interaction_variant	CCDC27
structural_interaction_variant	CCDC27
structural_interaction_variant	CCDC27
structural_interaction_variant	C1orf174
structural_interaction_variant	C1orf174
structural_interaction_variant	C1orf174
structural_interaction_variant	C1orf174
structural_interaction_variant	NPHP4

splice_donor_variant&intron_variant	NPHP4
structural_interaction_variant	KCNAB2
structural_interaction_variant	CHD5
structural_interaction_variant	CHD5
structural_interaction_variant	CHD5
structural_interaction_variant	CHD5
structural_interaction_variant	CHD5
structural_interaction_variant	CHD5
structural_interaction_variant	CHD5
structural_interaction_variant	CHD5
structural_interaction_variant	CHD5
structural_interaction_variant	CHD5
frameshift_variant	RNF207
structural_interaction_variant	RNF207
structural_interaction_variant	RNF207
structural_interaction_variant	RNF207
structural_interaction_variant	RNF207
frameshift_variant	GPR153
structural_interaction_variant	GPR153
structural_interaction_variant	ACOT7
structural_interaction_variant	ACOT7
structural_interaction_variant	ESPN
structural_interaction_variant	ESPN
missense_variant&splice_region_variant	ESPN
structural_interaction_variant	PLEKHG5
structural_interaction_variant	NOL9
structural_interaction_variant	NOL9
structural_interaction_variant	TAS1R1
structural_interaction_variant	TAS1R1
structural_interaction_variant	TAS1R1
structural_interaction_variant	ZBTB48
structural_interaction_variant	ZBTB48
structural_interaction_variant	PHF13
structural_interaction_variant	THAP3
structural_interaction_variant	DNAJC11
structural_interaction_variant	DNAJC11
structural_interaction_variant	DNAJC11
structural_interaction_variant	CAMTA1
structural_interaction_variant	VAMP3
structural_interaction_variant	PER3
structural_interaction_variant	PER3
structural_interaction_variant	PER3
frameshift_variant&stop_gained	PER3
structural_interaction_variant	PER3
structural_interaction_variant	PER3
structural_interaction_variant	PER3
structural_interaction_variant	PER3
structural_interaction_variant	PER3

stop_gained	PER3
structural_interaction_variant	PER3
stop_gained	UTS2
structural_interaction_variant	UTS2
stop_gained	PARK7
structural_interaction_variant	ERRFI1
structural_interaction_variant	ERRFI1
structural_interaction_variant	ERRFI1
structural_interaction_variant	ERRFI1
structural_interaction_variant	SLC45A1
structural_interaction_variant	SLC45A1
structural_interaction_variant	SLC45A1
missense_variant&splice_region_variant	RERE
structural_interaction_variant	RERE
structural_interaction_variant	RERE
structural_interaction_variant	RERE
structural_interaction_variant	ENO1
structural_interaction_variant	CA6
structural_interaction_variant	CA6
structural_interaction_variant	CA6
splice_donor_variant&intron_variant	SLC2A7
frameshift_variant&splice_region_variant	SLC2A7
frameshift_variant	SLC2A5
structural_interaction_variant	TMEM201
structural_interaction_variant	TMEM201
structural_interaction_variant	PIK3CD
structural_interaction_variant	CLSTN1
missense_variant&splice_region_variant	LZIC
structural_interaction_variant	NMNAT1
structural_interaction_variant	UBE4B
structural_interaction_variant	UBE4B
structural_interaction_variant	UBE4B
structural_interaction_variant	UBE4B
structural_interaction_variant	UBE4B
structural_interaction_variant	UBE4B
structural_interaction_variant	UBE4B
structural_interaction_variant	KIF1B
structural_interaction_variant	KIF1B
structural_interaction_variant	KIF1B
structural_interaction_variant	KIF1B
structural_interaction_variant	KIF1B
structural_interaction_variant	KIF1B
structural_interaction_variant	KIF1B
structural_interaction_variant	KIF1B
structural_interaction_variant	KIF1B
structural_interaction_variant	PGD
structural_interaction_variant	PGD
missense_variant&splice_region_variant	APITD1

frameshift_variant	CORT
frameshift_variant	CORT
structural_interaction_variant	DFFA
structural_interaction_variant	CASZ1
structural_interaction_variant	CASZ1
structural_interaction_variant	CASZ1
structural_interaction_variant	CASZ1
structural_interaction_variant	CASZ1
structural_interaction_variant	CASZ1
structural_interaction_variant	CASZ1
structural_interaction_variant	CASZ1
structural_interaction_variant	CASZ1
structural_interaction_variant	C1orf127
structural_interaction_variant	C1orf127
structural_interaction_variant	C1orf127
structural_interaction_variant	C1orf127
structural_interaction_variant	MASP2
structural_interaction_variant	MASP2
structural_interaction_variant	MASP2
stop_gained	MASP2
structural_interaction_variant	EXOSC10
structural_interaction_variant	EXOSC10
structural_interaction_variant	EXOSC10
structural_interaction_variant	EXOSC10
structural_interaction_variant	MTOR
structural_interaction_variant	MTOR
structural_interaction_variant	MTOR
frameshift_variant	UBIAD1
structural_interaction_variant	PTCHD2
structural_interaction_variant	PTCHD2
structural_interaction_variant	PTCHD2
structural_interaction_variant	PTCHD2
structural_interaction_variant	PTCHD2
structural_interaction_variant	PTCHD2
structural_interaction_variant	PTCHD2
structural_interaction_variant	FBXO44
structural_interaction_variant	FBXO44
disruptive_inframe_deletion	FBXO44
structural_interaction_variant	FBXO44
structural_interaction_variant	FBXO6
structural_interaction_variant	FBXO6
structural_interaction_variant	FBXO6
structural_interaction_variant	MAD2L2
stop_gained	MAD2L2
structural_interaction_variant	DRAXIN
structural_interaction_variant	DRAXIN
structural_interaction_variant	AGTRAP
missense_variant&splice_region_variant	AGTRAP

structural_interaction_variant	AGTRAP
structural_interaction_variant	MTHFR
structural_interaction_variant	MTHFR
structural_interaction_variant	MTHFR
structural_interaction_variant	CLCN6
structural_interaction_variant	CLCN6
structural_interaction_variant	CLCN6
structural_interaction_variant	NPPA
structural_interaction_variant	NPPB
structural_interaction_variant	NPPB
missense_variant&splice_region_variant	PLOD1
structural_interaction_variant	PLOD1
structural_interaction_variant	PLOD1
structural_interaction_variant	MIIP
structural_interaction_variant	TNFRSF8
structural_interaction_variant	TNFRSF8
structural_interaction_variant	TNFRSF8
missense_variant&splice_region_variant	TNFRSF8
stop_gained	VPS13D
structural_interaction_variant	DHRS3
structural_interaction_variant	AADACL4
structural_interaction_variant	AADACL4
frameshift_variant	AADACL3
structural_interaction_variant	AADACL3
stop_gained	C1orf158
structural_interaction_variant	C1orf158
structural_interaction_variant	C1orf158
structural_interaction_variant	C1orf158
structural_interaction_variant	PRAMEF12
structural_interaction_variant	PRAMEF12
structural_interaction_variant	PDPN
splice_donor_variant&splice_region_variant&intron_	PDPN
structural_interaction_variant	PRDM2
structural_interaction_variant	PRDM2
structural_interaction_variant	PRDM2
structural_interaction_variant	PRDM2
structural_interaction_variant	PRDM2
structural_interaction_variant	PRDM2
structural_interaction_variant	PRDM2
structural_interaction_variant	PRDM2
structural_interaction_variant	PRDM2
structural_interaction_variant	PRDM2
structural_interaction_variant	KAZN
structural_interaction_variant	KAZN
structural_interaction_variant	FHAD1
splice_donor_variant&intron_variant	FHAD1
structural_interaction_variant	FHAD1
frameshift_variant	FHAD1

stop_gained	CTRC
splice_donor_variant&intron_variant	CELA2B
structural_interaction_variant	CELA2B
structural_interaction_variant	DNAJC16
structural_interaction_variant	DNAJC16
structural_interaction_variant	DNAJC16
structural_interaction_variant	DNAJC16
structural_interaction_variant	DNAJC16
structural_interaction_variant	AGMAT
structural_interaction_variant	AGMAT
stop_gained	DDI2
structural_interaction_variant	DDI2
structural_interaction_variant	DDI2
structural_interaction_variant	RSC1A1
structural_interaction_variant	RSC1A1
structural_interaction_variant	PLEKHM2
structural_interaction_variant	PLEKHM2
structural_interaction_variant	PLEKHM2
structural_interaction_variant	PLEKHM2
structural_interaction_variant	PLEKHM2
structural_interaction_variant	SLC25A34
splice_acceptor_variant&intron_variant	SLC25A34
structural_interaction_variant	SLC25A34
stop_gained	TMEM82
structural_interaction_variant	TMEM82
structural_interaction_variant	TMEM82
structural_interaction_variant	SPEN
structural_interaction_variant	SPEN
structural_interaction_variant	SPEN
structural_interaction_variant	SPEN
structural_interaction_variant	SPEN
structural_interaction_variant	SPEN
structural_interaction_variant	SPEN
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structural_interaction_variant	SPEN
structural_interaction_variant	SPEN
structural_interaction_variant	SPEN
structural_interaction_variant	ZBTB17
structural_interaction_variant	ZBTB17
structural_interaction_variant	ZBTB17
structural_interaction_variant	ZBTB17
structural_interaction_variant	C1orf64
structural_interaction_variant	C1orf64
structural_interaction_variant	C1orf64
structural_interaction_variant	EPHA2
structural_interaction_variant	EPHA2

structural_interaction_variant	ARHGEF19
structural_interaction_variant	ARHGEF19
structural_interaction_variant	ARHGEF19
structural_interaction_variant	ARHGEF19
structural_interaction_variant	ARHGEF19
structural_interaction_variant	FBXO42
structural_interaction_variant	SPATA21
structural_interaction_variant	NECAP2
stop_gained	NECAP2
structural_interaction_variant	ATP13A2
structural_interaction_variant	SDHB
structural_interaction_variant	PADI2
structural_interaction_variant	PADI2
structural_interaction_variant	PADI1
structural_interaction_variant	PADI1
structural_interaction_variant	PADI1
structural_interaction_variant	PADI1
splice_donor_variant&intron_variant	PADI1
structural_interaction_variant	PADI1
structural_interaction_variant	PADI1
structural_interaction_variant	PADI1
structural_interaction_variant	PADI1
structural_interaction_variant	PADI4
structural_interaction_variant	PADI4
structural_interaction_variant	PADI4
structural_interaction_variant	PADI4
structural_interaction_variant	PADI4
structural_interaction_variant	PADI4
structural_interaction_variant	RCC2
structural_interaction_variant	ARHGEF10L
structural_interaction_variant	ARHGEF10L
structural_interaction_variant	ARHGEF10L
structural_interaction_variant	ACTL8
structural_interaction_variant	ACTL8
structural_interaction_variant	ACTL8
structural_interaction_variant	ACTL8
structural_interaction_variant	IGSF21
structural_interaction_variant	IGSF21
structural_interaction_variant	KLHDC7A
structural_interaction_variant	KLHDC7A
structural_interaction_variant	KLHDC7A
structural_interaction_variant	KLHDC7A
structural_interaction_variant	KLHDC7A
structural_interaction_variant	KLHDC7A
structural_interaction_variant	ALDH4A1
structural_interaction_variant	ALDH4A1
splice_donor_variant&intron_variant	ALDH4A1
structural_interaction_variant	IFFO2

structural_interaction_variant	UBR4
structural_interaction_variant	UBR4
structural_interaction_variant	UBR4
structural_interaction_variant	UBR4
structural_interaction_variant	UBR4
missense_variant&splice_region_variant	UBR4
structural_interaction_variant	UBR4
structural_interaction_variant	UBR4
structural_interaction_variant	UBR4
structural_interaction_variant	UBR4
structural_interaction_variant	UBR4
missense_variant&splice_region_variant	UBR4
structural_interaction_variant	EMC1
stop_gained	EMC1
structural_interaction_variant	AKR7A3
structural_interaction_variant	AKR7A3
structural_interaction_variant	AKR7A2
structural_interaction_variant	HTR6
structural_interaction_variant	TMCO4
structural_interaction_variant	TMCO4
structural_interaction_variant	TMCO4
structural_interaction_variant	RNF186
structural_interaction_variant	RNF186
structural_interaction_variant	OTUD3
stop_gained	PLA2G2C
structural_interaction_variant	UBXN10
structural_interaction_variant	UBXN10
structural_interaction_variant	VWA5B1
structural_interaction_variant	VWA5B1
structural_interaction_variant	VWA5B1
structural_interaction_variant	VWA5B1
structural_interaction_variant	VWA5B1
structural_interaction_variant	VWA5B1
structural_interaction_variant	VWA5B1
structural_interaction_variant	VWA5B1
structural_interaction_variant	VWA5B1
structural_interaction_variant	MUL1
stop_gained	PINK1
structural_interaction_variant	PINK1
structural_interaction_variant	PINK1
structural_interaction_variant	KIF17
structural_interaction_variant	KIF17
structural_interaction_variant	KIF17
structural_interaction_variant	KIF17
structural_interaction_variant	KIF17
structural_interaction_variant	EIF4G3
structural_interaction_variant	EIF4G3
structural_interaction_variant	EIF4G3

structural_interaction_variant	EIF4G3
structural_interaction_variant	EIF4G3
structural_interaction_variant	ECE1
structural_interaction_variant	ECE1
structural_interaction_variant	ECE1
structural_interaction_variant	NBPF3
missense_variant&splice_region_variant	ALPL
structural_interaction_variant	USP48
structural_interaction_variant	HSPG2
structural_interaction_variant	HSPG2
structural_interaction_variant	CELA3B
stop_gained	CELA3A
structural_interaction_variant	WNT4
structural_interaction_variant	WNT4
structural_interaction_variant	ZBTB40
structural_interaction_variant	ZBTB40
structural_interaction_variant	ZBTB40
structural_interaction_variant	EPHA8
structural_interaction_variant	EPHA8
structural_interaction_variant	EPHA8
structural_interaction_variant	EPHA8
structural_interaction_variant	EPHA8
structural_interaction_variant	EPHA8
structural_interaction_variant	EPHA8
structural_interaction_variant	EPHB2
structural_interaction_variant	EPHB2
structural_interaction_variant	EPHB2
structural_interaction_variant	LUZP1
structural_interaction_variant	LUZP1
structural_interaction_variant	LUZP1
structural_interaction_variant	LUZP1
structural_interaction_variant	HTR1D
structural_interaction_variant	HTR1D
structural_interaction_variant	HNRNPR
structural_interaction_variant	ZNF436
structural_interaction_variant	TCEA3
structural_interaction_variant	ASAP3
structural_interaction_variant	ASAP3
structural_interaction_variant	ASAP3
missense_variant&splice_region_variant	GALE
stop_gained	GALE
structural_interaction_variant	GALE
structural_interaction_variant	HMGCL
structural_interaction_variant	FUCA1
structural_interaction_variant	MYOM3
structural_interaction_variant	MYOM3
structural_interaction_variant	MYOM3
structural_interaction_variant	MYOM3

structural_interaction_variant	MYOM3
structural_interaction_variant	MYOM3
frameshift_variant	MYOM3
structural_interaction_variant	MYOM3
structural_interaction_variant	MYOM3
structural_interaction_variant	MYOM3
splice_donor_variant&intron_variant	MYOM3
structural_interaction_variant	IL22RA1
structural_interaction_variant	IFNLR1
structural_interaction_variant	IFNLR1
splice_donor_variant&intron_variant	NIPAL3
structural_interaction_variant	NIPAL3
structural_interaction_variant	NIPAL3
structural_interaction_variant	C1orf63
structural_interaction_variant	C1orf63
structural_interaction_variant	TMEM57
structural_interaction_variant	MAN1C1
structural_interaction_variant	SEPN1
structural_interaction_variant	SEPN1
structural_interaction_variant	PAFAH2
stop_gained	PAFAH2
structural_interaction_variant	PAFAH2
missense_variant&splice_region_variant	PAFAH2
stop_gained	EXTL1
structural_interaction_variant	SLC30A2
structural_interaction_variant	TRIM63
structural_interaction_variant	TRIM63
stop_gained	ZNF593
structural_interaction_variant	CNKSR1
stop_gained	CATSPER4
structural_interaction_variant	CATSPER4
structural_interaction_variant	CATSPER4
frameshift_variant&stop_gained	CEP85
structural_interaction_variant	CEP85
structural_interaction_variant	CEP85
structural_interaction_variant	UBXN11
frameshift_variant	UBXN11
structural_interaction_variant	AIM1L
structural_interaction_variant	AIM1L
structural_interaction_variant	AIM1L
structural_interaction_variant	ZNF683
structural_interaction_variant	ZNF683
structural_interaction_variant	ZNF683
structural_interaction_variant	DHDDS
structural_interaction_variant	RPS6KA1
structural_interaction_variant	RPS6KA1
structural_interaction_variant	RPS6KA1
stop_gained	PIGV

structural_interaction_variant	PIGV
structural_interaction_variant	ZDHHC18
structural_interaction_variant	ZDHHC18
structural_interaction_variant	SFN
structural_interaction_variant	SFN
structural_interaction_variant	SFN
structural_interaction_variant	GPATCH3
structural_interaction_variant	GPATCH3
structural_interaction_variant	GPATCH3
structural_interaction_variant	GPATCH3
structural_interaction_variant	GPATCH3
stop_gained	GPATCH3
structural_interaction_variant	NUDC
structural_interaction_variant	NUDC
structural_interaction_variant	C1orf172
structural_interaction_variant	C1orf172
structural_interaction_variant	SLC9A1
structural_interaction_variant	TMEM222
structural_interaction_variant	SYTL1
structural_interaction_variant	MAP3K6
structural_interaction_variant	MAP3K6
structural_interaction_variant	MAP3K6
structural_interaction_variant	MAP3K6
structural_interaction_variant	MAP3K6
structural_interaction_variant	MAP3K6
structural_interaction_variant	MAP3K6
structural_interaction_variant	MAP3K6
structural_interaction_variant	MAP3K6
structural_interaction_variant	GPR3
structural_interaction_variant	GPR3
structural_interaction_variant	GPR3
structural_interaction_variant	FGR
structural_interaction_variant	FGR
missense_variant&splice_region_variant	FAM76A
structural_interaction_variant	FAM76A
missense_variant&splice_region_variant	FAM76A
structural_interaction_variant	PPP1R8
structural_interaction_variant	THEMIS2
structural_interaction_variant	THEMIS2
structural_interaction_variant	RPA2
structural_interaction_variant	SMPDL3B
structural_interaction_variant	SMPDL3B
structural_interaction_variant	SMPDL3B
structural_interaction_variant	SMPDL3B
structural_interaction_variant	EYA3
structural_interaction_variant	EYA3
structural_interaction_variant	SESN2
structural_interaction_variant	SESN2

frameshift_variant	PHACTR4
stop_gained	PHACTR4
missense_variant&splice_region_variant	PHACTR4
structural_interaction_variant	RCC1
structural_interaction_variant	TRNAU1AP
structural_interaction_variant	TRNAU1AP
structural_interaction_variant	YTHDF2
frameshift_variant	YTHDF2
structural_interaction_variant	OPRD1
structural_interaction_variant	EPB41
structural_interaction_variant	EPB41
structural_interaction_variant	EPB41
structural_interaction_variant	SRSF4
frameshift_variant	SRSF4
structural_interaction_variant	SRSF4
structural_interaction_variant	MECR
structural_interaction_variant	MECR
structural_interaction_variant	PTPRU
structural_interaction_variant	PTPRU
structural_interaction_variant	PTPRU
missense_variant&splice_region_variant	PTPRU
structural_interaction_variant	PTPRU
splice_donor_variant&intron_variant	PTPRU
structural_interaction_variant	MATN1
structural_interaction_variant	SDC3
structural_interaction_variant	SDC3
structural_interaction_variant	SDC3
structural_interaction_variant	SNRNP40
structural_interaction_variant	FABP3
stop_gained	SERINC2
structural_interaction_variant	AC114494.1
structural_interaction_variant	SERINC2
structural_interaction_variant	TINAGL1
structural_interaction_variant	TINAGL1
structural_interaction_variant	PEF1
structural_interaction_variant	PEF1
structural_interaction_variant	PEF1
structural_interaction_variant	COL16A1
missense_variant&splice_region_variant	COL16A1
structural_interaction_variant	COL16A1
structural_interaction_variant	BAI2
stop_gained	BAI2
structural_interaction_variant	BAI2
structural_interaction_variant	BAI2
structural_interaction_variant	BAI2
structural_interaction_variant	BAI2
structural_interaction_variant	BAI2
structural_interaction_variant	SPOCD1

structural_interaction_variant	SPOCD1
structural_interaction_variant	SPOCD1
structural_interaction_variant	SPOCD1
structural_interaction_variant	SPOCD1
structural_interaction_variant	SPOCD1
structural_interaction_variant	TMEM39B
structural_interaction_variant	TMEM39B
structural_interaction_variant	KPNA6
structural_interaction_variant	TXLNA
structural_interaction_variant	CCDC28B
structural_interaction_variant	CCDC28B
missense_variant&splice_region_variant	CCDC28B
structural_interaction_variant	CCDC28B
frameshift_variant	IQCC
structural_interaction_variant	IQCC
structural_interaction_variant	IQCC
structural_interaction_variant	IQCC
structural_interaction_variant	IQCC
structural_interaction_variant	IQCC
structural_interaction_variant	IQCC
structural_interaction_variant	DCDC2B
stop_gained	DCDC2B
structural_interaction_variant	DCDC2B
structural_interaction_variant	EIF3I
structural_interaction_variant	FAM167B
structural_interaction_variant	LCK
frameshift_variant	LCK
structural_interaction_variant	HDAC1
structural_interaction_variant	HDAC1
splice_acceptor_variant&splice_region_variant&intr	HDAC1
structural_interaction_variant	MARCKSL1
structural_interaction_variant	TSSK3
stop_gained	TSSK3
structural_interaction_variant	TSSK3
splice_donor_variant&intron_variant	BSDC1
structural_interaction_variant	ZBTB8B
structural_interaction_variant	ZBTB8B
structural_interaction_variant	ZBTB8B
structural_interaction_variant	ZBTB8B
structural_interaction_variant	ZBTB8B
structural_interaction_variant	ZBTB8A
structural_interaction_variant	ZBTB8A
structural_interaction_variant	ZBTB8A
structural_interaction_variant	ZBTB8A
structural_interaction_variant	ZBTB8A
structural_interaction_variant	ZBTB8A
structural_interaction_variant	ZBTB8A
structural_interaction_variant	RBBP4

structural_interaction_variant	SYNC
structural_interaction_variant	SYNC
structural_interaction_variant	SYNC
structural_interaction_variant	SYNC
stop_gained	SYNC
structural_interaction_variant	KIAA1522
structural_interaction_variant	KIAA1522
structural_interaction_variant	KIAA1522
structural_interaction_variant	S100PBP
structural_interaction_variant	S100PBP
structural_interaction_variant	S100PBP
structural_interaction_variant	FNDC5
structural_interaction_variant	FNDC5
structural_interaction_variant	TMEM54
structural_interaction_variant	TMEM54
stop_gained	RNF19B
structural_interaction_variant	RNF19B
structural_interaction_variant	RNF19B
structural_interaction_variant	ADC
structural_interaction_variant	TRIM62
structural_interaction_variant	TRIM62
structural_interaction_variant	ZNF362
structural_interaction_variant	A3GALT2
structural_interaction_variant	ZSCAN20
structural_interaction_variant	ZSCAN20
structural_interaction_variant	ZSCAN20
structural_interaction_variant	ZSCAN20
structural_interaction_variant	ZSCAN20
structural_interaction_variant	CSMD2
structural_interaction_variant	CSMD2
structural_interaction_variant	CSMD2
structural_interaction_variant	CSMD2
structural_interaction_variant	CSMD2
structural_interaction_variant	CSMD2
structural_interaction_variant	CSMD2
structural_interaction_variant	CSMD2
missense_variant&splice_region_variant	CSMD2
structural_interaction_variant	CSMD2
structural_interaction_variant	CSMD2
structural_interaction_variant	C1orf94
structural_interaction_variant	C1orf94
structural_interaction_variant	C1orf94
structural_interaction_variant	C1orf94
structural_interaction_variant	C1orf94
structural_interaction_variant	C1orf94
structural_interaction_variant	C1orf94
structural_interaction_variant	GJB5
stop_gained	GJB5

structural_interaction_variant	GJB4
stop_gained	GJB4
structural_interaction_variant	GJB4
structural_interaction_variant	GJB3
frameshift_variant	GJA4
structural_interaction_variant	ZMYM6
structural_interaction_variant	ZMYM6
structural_interaction_variant	ZMYM6
structural_interaction_variant	ZMYM1
structural_interaction_variant	ZMYM1
structural_interaction_variant	SFPQ
structural_interaction_variant	ZMYM4
structural_interaction_variant	ZMYM4
structural_interaction_variant	ZMYM4
structural_interaction_variant	ZMYM4
structural_interaction_variant	ZMYM4
structural_interaction_variant	ZMYM4
structural_interaction_variant	ZMYM4
missense_variant&splice_region_variant	ZMYM4
structural_interaction_variant	ZMYM4
structural_interaction_variant	KIAA0319L
structural_interaction_variant	KIAA0319L
structural_interaction_variant	TFAP2E
structural_interaction_variant	TFAP2E
structural_interaction_variant	C1orf216
structural_interaction_variant	C1orf216
structural_interaction_variant	C1orf216
structural_interaction_variant	C1orf216
structural_interaction_variant	C1orf216
structural_interaction_variant	C1orf216
structural_interaction_variant	C1orf216
structural_interaction_variant	CLSPN
structural_interaction_variant	CLSPN
structural_interaction_variant	CLSPN
structural_interaction_variant	CLSPN
structural_interaction_variant	CLSPN
structural_interaction_variant	AGO4
structural_interaction_variant	AGO1
structural_interaction_variant	AGO3
structural_interaction_variant	AGO3
structural_interaction_variant	TEKT2
structural_interaction_variant	MAP7D1
structural_interaction_variant	MAP7D1
structural_interaction_variant	MAP7D1
structural_interaction_variant	MAP7D1
splice_acceptor_variant&intron_variant	MAP7D1
structural_interaction_variant	THRAP3
structural_interaction_variant	THRAP3

structural_interaction_variant	THRAP3
structural_interaction_variant	THRAP3
structural_interaction_variant	SH3D21
structural_interaction_variant	SH3D21
structural_interaction_variant	SH3D21
structural_interaction_variant	SH3D21
structural_interaction_variant	SH3D21
structural_interaction_variant	STK40
structural_interaction_variant	OSCP1
structural_interaction_variant	MRPS15
structural_interaction_variant	GRIK3
structural_interaction_variant	GRIK3
structural_interaction_variant	ZC3H12A
structural_interaction_variant	ZC3H12A
structural_interaction_variant	ZC3H12A
structural_interaction_variant	MEAF6
structural_interaction_variant	MEAF6
conservative_inframe_deletion	MEAF6
structural_interaction_variant	SNIP1
structural_interaction_variant	SNIP1
structural_interaction_variant	GNL2
structural_interaction_variant	GNL2
structural_interaction_variant	GNL2
structural_interaction_variant	GNL2
structural_interaction_variant	GNL2
structural_interaction_variant	C1orf109
structural_interaction_variant	C1orf109
structural_interaction_variant	C1orf109
structural_interaction_variant	C1orf109
frameshift_variant	CDCA8
structural_interaction_variant	EPHA10
structural_interaction_variant	EPHA10
stop_gained	EPHA10
structural_interaction_variant	EPHA10
stop_gained	EPHA10
structural_interaction_variant	EPHA10
structural_interaction_variant	EPHA10
structural_interaction_variant	MANEAL
structural_interaction_variant	YRDC
structural_interaction_variant	MTF1
missense_variant&splice_region_variant	MTF1
structural_interaction_variant	MTF1
structural_interaction_variant	MTF1
stop_gained	INPP5B
structural_interaction_variant	INPP5B
structural_interaction_variant	INPP5B
structural_interaction_variant	FHL3
structural_interaction_variant	FHL3

structural_interaction_variant	UTP11L
structural_interaction_variant	UTP11L
structural_interaction_variant	UTP11L
structural_interaction_variant	GJA9
structural_interaction_variant	GJA9
structural_interaction_variant	GJA9
structural_interaction_variant	GJA9
structural_interaction_variant	GJA9
frameshift_variant&splice_region_variant	RHBDL2
structural_interaction_variant	NDUFS5
stop_gained	MACF1
structural_interaction_variant	KIAA0754
structural_interaction_variant	KIAA0754
structural_interaction_variant	KIAA0754
structural_interaction_variant	KIAA0754
structural_interaction_variant	KIAA0754
structural_interaction_variant	KIAA0754
structural_interaction_variant	KIAA0754
structural_interaction_variant	KIAA0754
structural_interaction_variant	KIAA0754
structural_interaction_variant	KIAA0754
structural_interaction_variant	KIAA0754
structural_interaction_variant	MACF1
structural_interaction_variant	MACF1
structural_interaction_variant	MACF1
structural_interaction_variant	BMP8A
structural_interaction_variant	BMP8A
missense_variant&splice_region_variant	PABPC4
structural_interaction_variant	HEYL
structural_interaction_variant	HEYL
structural_interaction_variant	HEYL
structural_interaction_variant	NT5C1A
frameshift_variant	HPCAL4
frameshift_variant	HPCAL4
frameshift_variant	HPCAL4
structural_interaction_variant	PPIE
structural_interaction_variant	TRIT1
structural_interaction_variant	MYCL
structural_interaction_variant	MFSD2A
structural_interaction_variant	RLF
structural_interaction_variant	RLF
structural_interaction_variant	RLF
structural_interaction_variant	RLF
structural_interaction_variant	RLF
structural_interaction_variant	RLF
structural_interaction_variant	RLF
frameshift_variant	RLF
structural_interaction_variant	TMCO2

structural_interaction_variant	ZFP69B
structural_interaction_variant	ZFP69B
structural_interaction_variant	ZFP69
structural_interaction_variant	EXO5
structural_interaction_variant	ZNF684
structural_interaction_variant	ZNF684
structural_interaction_variant	ZNF684
structural_interaction_variant	RIMS3
structural_interaction_variant	RIMS3
structural_interaction_variant	RIMS3
structural_interaction_variant	KCNQ4
structural_interaction_variant	CTPS1
structural_interaction_variant	SLFNL1
structural_interaction_variant	SCMH1
structural_interaction_variant	SCMH1
structural_interaction_variant	SCMH1
structural_interaction_variant	GUCA2A
structural_interaction_variant	GUCA2A
structural_interaction_variant	FOXJ3
structural_interaction_variant	FOXJ3
structural_interaction_variant	FOXJ3
structural_interaction_variant	RIMKLA
frameshift_variant	ZMYND12
structural_interaction_variant	ZMYND12
structural_interaction_variant	PPCS
structural_interaction_variant	PPCS
structural_interaction_variant	CCDC30
stop_gained	CCDC30
stop_gained	CCDC30
structural_interaction_variant	CCDC30
frameshift_variant	PPIH
structural_interaction_variant	CLDN19
structural_interaction_variant	LEPRE1
structural_interaction_variant	LEPRE1
missense_variant&splice_region_variant	LEPRE1
structural_interaction_variant	LEPRE1
missense_variant&splice_region_variant	LEPRE1
stop_gained	LEPRE1
splice_donor_variant&intron_variant	LEPRE1
structural_interaction_variant	LEPRE1
structural_interaction_variant	LEPRE1
structural_interaction_variant	C1orf50
structural_interaction_variant	SLC2A1
structural_interaction_variant	EBNA1BP2
structural_interaction_variant	WDR65
structural_interaction_variant	WDR65
structural_interaction_variant	TIE1
structural_interaction_variant	TIE1

structural_interaction_variant	TIE1
structural_interaction_variant	ELOVL1
structural_interaction_variant	SZT2
structural_interaction_variant	SZT2
structural_interaction_variant	SZT2
missense_variant&splice_region_variant	SZT2
structural_interaction_variant	SZT2
structural_interaction_variant	SZT2
structural_interaction_variant	SZT2
structural_interaction_variant	HYI
structural_interaction_variant	HYI
frameshift_variant&stop_gained	HYI
structural_interaction_variant	HYI
structural_interaction_variant	PTPRF
structural_interaction_variant	PTPRF
structural_interaction_variant	PTPRF
structural_interaction_variant	KDM4A
structural_interaction_variant	ARTN
structural_interaction_variant	IPO13
structural_interaction_variant	IPO13
structural_interaction_variant	DPH2
structural_interaction_variant	DPH2
structural_interaction_variant	ATP6V0B
structural_interaction_variant	B4GALT2
frameshift_variant	KLF17
structural_interaction_variant	DMAP1
missense_variant&splice_region_variant	DMAP1
structural_interaction_variant	KIF2C
structural_interaction_variant	KIF2C
structural_interaction_variant	BEST4
structural_interaction_variant	PLK3
structural_interaction_variant	PLK3
structural_interaction_variant	PLK3
structural_interaction_variant	PLK3
structural_interaction_variant	PLK3
structural_interaction_variant	PLK3
structural_interaction_variant	PLK3
structural_interaction_variant	PLK3
structural_interaction_variant	BTBD19
structural_interaction_variant	BTBD19
structural_interaction_variant	PTCH2
structural_interaction_variant	PTCH2
structural_interaction_variant	PTCH2
structural_interaction_variant	PTCH2
structural_interaction_variant	PTCH2
structural_interaction_variant	MUTYH
stop_gained	MUTYH
missense_variant&splice_region_variant	MUTYH

structural_interaction_variant	MUTYH
frameshift_variant	TOE1
stop_gained	TESK2
structural_interaction_variant	TESK2
splice_acceptor_variant&intron_variant	TESK2
stop_gained	TESK2
structural_interaction_variant	MMACHC
structural_interaction_variant	MMACHC
structural_interaction_variant	NASP
structural_interaction_variant	CCDC17
structural_interaction_variant	CCDC17
stop_gained	CCDC17
structural_interaction_variant	CCDC17
structural_interaction_variant	GPBP1L1
structural_interaction_variant	GPBP1L1
structural_interaction_variant	GPBP1L1
start_lost	TMEM69
stop_gained	IPP
structural_interaction_variant	IPP
structural_interaction_variant	MAST2
structural_interaction_variant	MAST2
splice_acceptor_variant&intron_variant	MAST2
structural_interaction_variant	MAST2
structural_interaction_variant	MAST2
structural_interaction_variant	MAST2
structural_interaction_variant	MAST2
frameshift_variant	PIK3R3
frameshift_variant	POMGNT1
structural_interaction_variant	RAD54L
structural_interaction_variant	RAD54L
splice_donor_variant&intron_variant	RAD54L
frameshift_variant	RAD54L
structural_interaction_variant	NSUN4
structural_interaction_variant	FAAH
stop_gained	FAAH
structural_interaction_variant	DMBX1
structural_interaction_variant	DMBX1
structural_interaction_variant	DMBX1
structural_interaction_variant	KNCN
structural_interaction_variant	KNCN
structural_interaction_variant	KNCN
protein_protein_contact	MKNK1
structural_interaction_variant	MKNK1
structural_interaction_variant	MOB3C
structural_interaction_variant	TEX38
frameshift_variant	EFCAB14
structural_interaction_variant	EFCAB14
frameshift_variant	CYP4B1

structural_interaction_variant	CYP4B1
structural_interaction_variant	CYP4A11
structural_interaction_variant	CYP4A11
structural_interaction_variant	CYP4X1
structural_interaction_variant	CYP4X1
structural_interaction_variant	CYP4X1
structural_interaction_variant	PDZK1IP1
structural_interaction_variant	STIL
frameshift_variant	STIL
structural_interaction_variant	STIL
structural_interaction_variant	STIL
structural_interaction_variant	FOXE3
structural_interaction_variant	FOXD2
structural_interaction_variant	FOXD2
structural_interaction_variant	FOXD2
structural_interaction_variant	FOXD2
structural_interaction_variant	SLC5A9
frameshift_variant	SLC5A9
structural_interaction_variant	SLC5A9
splice_donor_variant&intron_variant	SLC5A9
structural_interaction_variant	SLC5A9
stop_gained	SLC5A9
structural_interaction_variant	SLC5A9
structural_interaction_variant	SPATA6
structural_interaction_variant	SPATA6
structural_interaction_variant	ELAVL4
structural_interaction_variant	FAF1
structural_interaction_variant	C1orf185
structural_interaction_variant	C1orf185
structural_interaction_variant	RNF11
frameshift_variant	TTC39A
structural_interaction_variant	TTC39A
stop_gained	EPS15
structural_interaction_variant	EPS15
structural_interaction_variant	EPS15
structural_interaction_variant	EPS15
structural_interaction_variant	EPS15
structural_interaction_variant	OSBPL9
frameshift_variant	OSBPL9
stop_gained	OSBPL9
structural_interaction_variant	OSBPL9
structural_interaction_variant	OSBPL9
stop_gained	OSBPL9
structural_interaction_variant	NRD1
structural_interaction_variant	NRD1
structural_interaction_variant	NRD1
structural_interaction_variant	ZFYVE9
structural_interaction_variant	ZFYVE9

missense_variant&splice_region_variant	ZFYVE9
structural_interaction_variant	ZFYVE9
structural_interaction_variant	CC2D1B
structural_interaction_variant	CC2D1B
missense_variant&splice_region_variant	CC2D1B
structural_interaction_variant	CC2D1B
structural_interaction_variant	CC2D1B
stop_gained	ORC1
structural_interaction_variant	PRPF38A
structural_interaction_variant	PRPF38A
structural_interaction_variant	PRPF38A
structural_interaction_variant	ZCCHC11
structural_interaction_variant	ZCCHC11
structural_interaction_variant	FAM159A
frameshift_variant&stop_gained	ZYG11B
structural_interaction_variant	ZYG11A
structural_interaction_variant	ZYG11A
structural_interaction_variant	ZYG11A
splice_donor_variant&intron_variant	ZYG11A
structural_interaction_variant	ZYG11A
structural_interaction_variant	ZYG11A
structural_interaction_variant	ECHDC2
structural_interaction_variant	ECHDC2
structural_interaction_variant	ECHDC2
structural_interaction_variant	PODN
structural_interaction_variant	PODN
structural_interaction_variant	PODN
structural_interaction_variant	SLC1A7
structural_interaction_variant	SLC1A7
structural_interaction_variant	SLC1A7
structural_interaction_variant	CPT2
structural_interaction_variant	C1orf123
structural_interaction_variant	C1orf123
frameshift_variant	C1orf123
structural_interaction_variant	LRP8
structural_interaction_variant	LRP8
conservative_inframe_deletion	LRP8
structural_interaction_variant	LRP8
structural_interaction_variant	LRP8
structural_interaction_variant	LRP8
structural_interaction_variant	DMRTB1
structural_interaction_variant	DMRTB1
structural_interaction_variant	GLIS1
structural_interaction_variant	GLIS1
structural_interaction_variant	NDC1
structural_interaction_variant	NDC1
structural_interaction_variant	NDC1
splice_donor_variant&intron_variant	YIPF1

structural_interaction_variant	YIPF1
structural_interaction_variant	YIPF1
structural_interaction_variant	YIPF1
structural_interaction_variant	YIPF1
stop_gained	DIO1
structural_interaction_variant	HSPB11
structural_interaction_variant	HSPB11
start_lost	LRRC42
structural_interaction_variant	LRRC42
structural_interaction_variant	CDCP2
structural_interaction_variant	CDCP2
structural_interaction_variant	CYB5RL
structural_interaction_variant	CYB5RL
structural_interaction_variant	MRPL37
structural_interaction_variant	ACOT11
frameshift_variant	FAM151A
structural_interaction_variant	FAM151A
structural_interaction_variant	FAM151A
missense_variant&splice_region_variant	FAM151A
structural_interaction_variant	FAM151A
stop_gained	MROH7-TTC4
structural_interaction_variant	MROH7-TTC4
structural_interaction_variant	MROH7-TTC4
structural_interaction_variant	MROH7-TTC4
splice_acceptor_variant&intron_variant	MROH7-TTC4
structural_interaction_variant	MROH7-TTC4
structural_interaction_variant	MROH7-TTC4
structural_interaction_variant	TTC4
structural_interaction_variant	TTC22
structural_interaction_variant	TMEM61
frameshift_variant	BSND
structural_interaction_variant	PCSK9
structural_interaction_variant	PCSK9
structural_interaction_variant	PCSK9
structural_interaction_variant	PCSK9
structural_interaction_variant	USP24
structural_interaction_variant	USP24
structural_interaction_variant	USP24
missense_variant&splice_region_variant	USP24
structural_interaction_variant	USP24
structural_interaction_variant	USP24
structural_interaction_variant	USP24
structural_interaction_variant	USP24
structural_interaction_variant	USP24
structural_interaction_variant	USP24
structural_interaction_variant	PPAP2B
missense_variant&splice_region_variant	PPAP2B
structural_interaction_variant	PPAP2B

structural_interaction_variant	PRKAA2
structural_interaction_variant	PRKAA2
structural_interaction_variant	PRKAA2
structural_interaction_variant	C1orf168
stop_gained	C8B
structural_interaction_variant	MYSM1
stop_gained	MYSM1
structural_interaction_variant	MYSM1
structural_interaction_variant	FGGY
structural_interaction_variant	FGGY
structural_interaction_variant	FGGY
structural_interaction_variant	HOOK1
stop_gained	C1orf87
structural_interaction_variant	C1orf87
splice_donor_variant&intron_variant	C1orf87
structural_interaction_variant	C1orf87
structural_interaction_variant	TM2D1
structural_interaction_variant	INADL
splice_acceptor_variant&intron_variant	INADL
structural_interaction_variant	L1TD1
structural_interaction_variant	L1TD1
structural_interaction_variant	L1TD1
frameshift_variant	KANK4
structural_interaction_variant	KANK4
structural_interaction_variant	KANK4
structural_interaction_variant	USP1
stop_gained	DOCK7
structural_interaction_variant	DOCK7
structural_interaction_variant	DOCK7
structural_interaction_variant	ATG4C
structural_interaction_variant	ATG4C
structural_interaction_variant	FOXD3
frameshift_variant	EFCAB7
structural_interaction_variant	EFCAB7
structural_interaction_variant	EFCAB7
structural_interaction_variant	PGM1
structural_interaction_variant	ROR1
structural_interaction_variant	ROR1
structural_interaction_variant	ROR1
structural_interaction_variant	ROR1
structural_interaction_variant	ROR1
structural_interaction_variant	ROR1
structural_interaction_variant	ROR1
frameshift_variant&splice_region_variant	UBE2U
frameshift_variant&splice_region_variant	UBE2U
structural_interaction_variant	UBE2U
structural_interaction_variant	CACHD1
structural_interaction_variant	CACHD1

structural_interaction_variant	CACHD1
structural_interaction_variant	CACHD1
frameshift_variant	CACHD1
structural_interaction_variant	CACHD1
structural_interaction_variant	RAVER2
structural_interaction_variant	DNAJC6
structural_interaction_variant	DNAJC6
start_lost	LEPR
structural_interaction_variant	PDE4B
structural_interaction_variant	SGIP1
structural_interaction_variant	TCTEX1D1
structural_interaction_variant	WDR78
structural_interaction_variant	WDR78
structural_interaction_variant	WDR78
structural_interaction_variant	MIER1
structural_interaction_variant	MIER1
structural_interaction_variant	C1orf141
splice_acceptor_variant&intron_variant	IL23R
structural_interaction_variant	IL23R
structural_interaction_variant	IL23R
structural_interaction_variant	IL23R
structural_interaction_variant	IL23R
structural_interaction_variant	IL23R
start_lost	IL12RB2
structural_interaction_variant	IL12RB2
stop_gained	IL12RB2
structural_interaction_variant	IL12RB2
frameshift_variant	IL12RB2
structural_interaction_variant	IL12RB2
structural_interaction_variant	IL12RB2
stop_gained	IL12RB2
structural_interaction_variant	IL12RB2
structural_interaction_variant	IL12RB2
structural_interaction_variant	IL12RB2
structural_interaction_variant	IL12RB2
structural_interaction_variant	WLS
missense_variant&splice_region_variant	WLS
frameshift_variant	RPE65
structural_interaction_variant	DEPDC1
missense_variant&splice_region_variant	DEPDC1
structural_interaction_variant	LRRC7
structural_interaction_variant	LRRC7
structural_interaction_variant	LRRC7
structural_interaction_variant	LRRC7
structural_interaction_variant	LRRC7
structural_interaction_variant	LRRC7
structural_interaction_variant	LRRC40
structural_interaction_variant	LRRC40

structural_interaction_variant	LRRC40
structural_interaction_variant	LRRC40
structural_interaction_variant	SRSF11
structural_interaction_variant	SRSF11
structural_interaction_variant	ANKRD13C
structural_interaction_variant	ANKRD13C
structural_interaction_variant	CTH
structural_interaction_variant	CTH
stop_gained	PTGER3
structural_interaction_variant	PTGER3
structural_interaction_variant	ZRANB2
stop_gained	LRRIQ3
structural_interaction_variant	LRRIQ3
structural_interaction_variant	LRRIQ3
structural_interaction_variant	LRRIQ3
structural_interaction_variant	LRRIQ3
structural_interaction_variant	LRRIQ3
structural_interaction_variant	LRRIQ3
structural_interaction_variant	LRRIQ3
stop_gained	FPGT-TNNI3K
structural_interaction_variant	FPGT
structural_interaction_variant	FPGT
structural_interaction_variant	FPGT
structural_interaction_variant	FPGT
frameshift_variant	TNNI3K
stop_gained	TNNI3K
structural_interaction_variant	TNNI3K
stop_gained	FPGT-TNNI3K
structural_interaction_variant	TNNI3K
structural_interaction_variant	TNNI3K
structural_interaction_variant	LRRC53
frameshift_variant	LRRC53
structural_interaction_variant	C1orf173
frameshift_variant	C1orf173
structural_interaction_variant	C1orf173
structural_interaction_variant	C1orf173
structural_interaction_variant	C1orf173
structural_interaction_variant	C1orf173
structural_interaction_variant	C1orf173
structural_interaction_variant	CRYZ
missense_variant&splice_region_variant	CRYZ
splice_acceptor_variant&intron_variant	CRYZ
stop_gained	TYW3
structural_interaction_variant	LHX8
splice_acceptor_variant&intron_variant	SLC44A5
structural_interaction_variant	RABGGTB
structural_interaction_variant	RABGGTB
structural_interaction_variant	RABGGTB

structural_interaction_variant	RABGGTB
stop_gained	MSH4
structural_interaction_variant	MSH4
structural_interaction_variant	MSH4
structural_interaction_variant	MSH4
splice_donor_variant&intron_variant	MSH4
structural_interaction_variant	MSH4
frameshift_variant	MSH4
structural_interaction_variant	MSH4
structural_interaction_variant	ST6GALNAC3
stop_gained	ST6GALNAC3
structural_interaction_variant	ST6GALNAC3
structural_interaction_variant	ST6GALNAC3
structural_interaction_variant	ST6GALNAC5
structural_interaction_variant	ST6GALNAC5
structural_interaction_variant	PIGK
frameshift_variant	PIGK
structural_interaction_variant	AK5
structural_interaction_variant	ZZZ3
structural_interaction_variant	ZZZ3
structural_interaction_variant	ZZZ3
structural_interaction_variant	ZZZ3
structural_interaction_variant	ZZZ3
structural_interaction_variant	ZZZ3
structural_interaction_variant	USP33
structural_interaction_variant	USP33
structural_interaction_variant	USP33
structural_interaction_variant	USP33
structural_interaction_variant	USP33
structural_interaction_variant	FAM73A
structural_interaction_variant	FAM73A
structural_interaction_variant	FAM73A
structural_interaction_variant	FAM73A
structural_interaction_variant	NEXN
structural_interaction_variant	NEXN
structural_interaction_variant	NEXN
frameshift_variant	NEXN
structural_interaction_variant	NEXN
structural_interaction_variant	NEXN
structural_interaction_variant	FUBP1
structural_interaction_variant	FUBP1
structural_interaction_variant	DNAJB4
structural_interaction_variant	PTGFR
structural_interaction_variant	PTGFR
structural_interaction_variant	IFI44L
frameshift_variant	IFI44L
structural_interaction_variant	IFI44
structural_interaction_variant	IFI44

structural_interaction_variant	IFI44
stop_gained	ELTD1
structural_interaction_variant	ELTD1
structural_interaction_variant	ELTD1
structural_interaction_variant	ELTD1
structural_interaction_variant	ELTD1
splice_donor_variant&intron_variant	ELTD1
structural_interaction_variant	ELTD1
structural_interaction_variant	ELTD1
structural_interaction_variant	LPHN2
structural_interaction_variant	LPHN2
structural_interaction_variant	LPHN2
structural_interaction_variant	TTLL7
structural_interaction_variant	TTLL7
structural_interaction_variant	TTLL7
structural_interaction_variant	SAMD13
structural_interaction_variant	SAMD13
missense_variant&splice_region_variant	DNASE2B
structural_interaction_variant	DNASE2B
structural_interaction_variant	DNASE2B
stop_gained	RPF1
structural_interaction_variant	CTBS
structural_interaction_variant	LPAR3
structural_interaction_variant	MCOLN2
structural_interaction_variant	MCOLN2
structural_interaction_variant	MCOLN2
structural_interaction_variant	MCOLN3
structural_interaction_variant	WDR63
structural_interaction_variant	WDR63
structural_interaction_variant	WDR63
missense_variant&splice_region_variant	WDR63
structural_interaction_variant	WDR63
structural_interaction_variant	SYDE2
structural_interaction_variant	SYDE2
structural_interaction_variant	DDAH1
structural_interaction_variant	DDAH1
structural_interaction_variant	CYR61
structural_interaction_variant	CYR61
structural_interaction_variant	CYR61
structural_interaction_variant	ZNHIT6
stop_gained	COL24A1
structural_interaction_variant	COL24A1
structural_interaction_variant	COL24A1
frameshift_variant	ODF2L
structural_interaction_variant	ODF2L
structural_interaction_variant	CLCA2
structural_interaction_variant	CLCA2
stop_gained	CLCA2

structural_interaction_variant	CLCA2
structural_interaction_variant	CLCA1
structural_interaction_variant	CLCA1
structural_interaction_variant	CLCA4
structural_interaction_variant	CLCA4
structural_interaction_variant	CLCA4
structural_interaction_variant	CLCA4
structural_interaction_variant	SH3GLB1
structural_interaction_variant	SEP15
structural_interaction_variant	SEP15
splice_donor_variant&intron_variant	SEP15
splice_donor_variant&intron_variant	SEP15
structural_interaction_variant	HS2ST1
structural_interaction_variant	HS2ST1
structural_interaction_variant	HS2ST1
structural_interaction_variant	HS2ST1
structural_interaction_variant	LMO4
stop_gained	CCBL2
structural_interaction_variant	CCBL2
structural_interaction_variant	CCBL2
structural_interaction_variant	CCBL2
stop_gained	GBP3
structural_interaction_variant	GBP1
structural_interaction_variant	GBP1
structural_interaction_variant	GBP7
structural_interaction_variant	GBP7
structural_interaction_variant	GBP7
stop_gained	GBP7
structural_interaction_variant	GBP7
structural_interaction_variant	GBP4
frameshift_variant	GBP4
structural_interaction_variant	GBP4
structural_interaction_variant	GBP4
structural_interaction_variant	GBP5
structural_interaction_variant	GBP5
structural_interaction_variant	GBP5
structural_interaction_variant	GBP5
structural_interaction_variant	GBP5
structural_interaction_variant	LRRC8B
structural_interaction_variant	LRRC8C
structural_interaction_variant	LRRC8C
stop_gained	LRRC8C
structural_interaction_variant	LRRC8D
structural_interaction_variant	LRRC8D
structural_interaction_variant	ZNF326
structural_interaction_variant	BARHL2
structural_interaction_variant	BARHL2
structural_interaction_variant	BARHL2

structural_interaction_variant	ZNF644
structural_interaction_variant	ZNF644
structural_interaction_variant	ZNF644
structural_interaction_variant	ZNF644
structural_interaction_variant	ZNF644
structural_interaction_variant	ZNF644
frameshift_variant	HFM1
structural_interaction_variant	HFM1
structural_interaction_variant	CDC7
structural_interaction_variant	CDC7
structural_interaction_variant	TGFBR3
structural_interaction_variant	TGFBR3
structural_interaction_variant	BRDT
structural_interaction_variant	BRDT
structural_interaction_variant	KIAA1107
structural_interaction_variant	KIAA1107
structural_interaction_variant	KIAA1107
structural_interaction_variant	EVI5
frameshift_variant	EVI5
structural_interaction_variant	EVI5
structural_interaction_variant	EVI5
structural_interaction_variant	EVI5
structural_interaction_variant	FAM69A
structural_interaction_variant	MTF2
structural_interaction_variant	CCDC18
structural_interaction_variant	CCDC18
missense_variant&splice_region_variant	CCDC18
structural_interaction_variant	CCDC18
structural_interaction_variant	CCDC18
structural_interaction_variant	CCDC18
structural_interaction_variant	CCDC18
structural_interaction_variant	CCDC18
structural_interaction_variant	CCDC18
structural_interaction_variant	CCDC18
structural_interaction_variant	CCDC18
structural_interaction_variant	CCDC18
structural_interaction_variant	CCDC18
frameshift_variant	CCDC18
structural_interaction_variant	FNBP1L
structural_interaction_variant	FNBP1L
structural_interaction_variant	FNBP1L
structural_interaction_variant	BCAR3
structural_interaction_variant	BCAR3
structural_interaction_variant	BCAR3
structural_interaction_variant	BCAR3
structural_interaction_variant	BCAR3
structural_interaction_variant	BCAR3
structural_interaction_variant	BCAR3

stop_gained	ABCA4
structural_interaction_variant	ABCA4
structural_interaction_variant	ABCA4
structural_interaction_variant	ABCA4
structural_interaction_variant	ABCA4
structural_interaction_variant	ABCA4
structural_interaction_variant	ABCA4
missense_variant&splice_region_variant	ABCA4
structural_interaction_variant	ABCD3
structural_interaction_variant	F3
stop_gained	SLC44A3
structural_interaction_variant	SLC44A3
structural_interaction_variant	TMEM56
structural_interaction_variant	RWDD3
structural_interaction_variant	RWDD3
structural_interaction_variant	DPYD
structural_interaction_variant	SNX7
structural_interaction_variant	SNX7
structural_interaction_variant	SNX7
structural_interaction_variant	LPPR5
structural_interaction_variant	LPPR5
structural_interaction_variant	LPPR4
structural_interaction_variant	PALMD
structural_interaction_variant	PALMD
structural_interaction_variant	PALMD
stop_gained	FRRS1
structural_interaction_variant	FRRS1
frameshift_variant	FRRS1
structural_interaction_variant	FRRS1
structural_interaction_variant	AGL
structural_interaction_variant	AGL
structural_interaction_variant	HIAT1
frameshift_variant	SASS6
structural_interaction_variant	TRMT13
frameshift_variant	LRRC39
structural_interaction_variant	LRRC39
structural_interaction_variant	LRRC39
structural_interaction_variant	RTCA
structural_interaction_variant	RTCA
splice_acceptor_variant&intron_variant	VCAM1
structural_interaction_variant	VCAM1
structural_interaction_variant	VCAM1
structural_interaction_variant	EXTL2
structural_interaction_variant	EXTL2
splice_acceptor_variant&intron_variant	EXTL2
structural_interaction_variant	SLC30A7
structural_interaction_variant	SLC30A7
structural_interaction_variant	OLFM3

missense_variant&splice_region_variant	COL11A1
frameshift_variant	PRMT6
structural_interaction_variant	PRMT6
structural_interaction_variant	PRMT6
structural_interaction_variant	PRMT6
structural_interaction_variant	PRMT6
structural_interaction_variant	PRMT6
structural_interaction_variant	PRMT6
structural_interaction_variant	NTNG1
structural_interaction_variant	VAV3
structural_interaction_variant	VAV3
structural_interaction_variant	VAV3
structural_interaction_variant	VAV3
structural_interaction_variant	VAV3
structural_interaction_variant	SLC25A24
structural_interaction_variant	FAM102B
structural_interaction_variant	PRPF38B
frameshift_variant	PRPF38B
missense_variant&splice_region_variant	FNDC7
structural_interaction_variant	FNDC7
structural_interaction_variant	FNDC7
structural_interaction_variant	FNDC7
structural_interaction_variant	STXBP3
structural_interaction_variant	AKNAD1
stop_gained	AKNAD1
structural_interaction_variant	CLCC1
structural_interaction_variant	CLCC1
structural_interaction_variant	CLCC1
conservative_inframe_deletion	WDR47
structural_interaction_variant	WDR47
structural_interaction_variant	WDR47
structural_interaction_variant	KIAA1324
structural_interaction_variant	KIAA1324
structural_interaction_variant	SARS
structural_interaction_variant	CELSR2
structural_interaction_variant	CELSR2
structural_interaction_variant	CELSR2
structural_interaction_variant	CELSR2
structural_interaction_variant	CELSR2
structural_interaction_variant	CELSR2
structural_interaction_variant	CELSR2
structural_interaction_variant	CELSR2
structural_interaction_variant	PSRC1
structural_interaction_variant	PSRC1
structural_interaction_variant	MYBPHL
stop_gained	SORT1
structural_interaction_variant	SORT1
structural_interaction_variant	SORT1

structural_interaction_variant	SORT1
structural_interaction_variant	ATXN7L2
structural_interaction_variant	AMIGO1
frameshift_variant	GNAT2
structural_interaction_variant	AMPD2
structural_interaction_variant	GSTM2
structural_interaction_variant	GSTM5
structural_interaction_variant	GSTM3
stop_gained	EPS8L3
missense_variant&splice_region_variant	EPS8L3
structural_interaction_variant	EPS8L3
structural_interaction_variant	CSF1
structural_interaction_variant	CSF1
structural_interaction_variant	STRIP1
structural_interaction_variant	ALX3
structural_interaction_variant	ALX3
frameshift_variant	ALX3
structural_interaction_variant	SLC6A17
structural_interaction_variant	KCNC4
structural_interaction_variant	KCNC4
structural_interaction_variant	KCNC4
structural_interaction_variant	KCNC4
structural_interaction_variant	KCNC4
structural_interaction_variant	RBM15
conservative_inframe_deletion	RBM15
structural_interaction_variant	RBM15
structural_interaction_variant	RBM15
structural_interaction_variant	RBM15
structural_interaction_variant	RBM15
structural_interaction_variant	RBM15
structural_interaction_variant	SLC16A4
structural_interaction_variant	LAMTOR5
structural_interaction_variant	LAMTOR5
structural_interaction_variant	LAMTOR5
structural_interaction_variant	LAMTOR5
structural_interaction_variant	KCNA10
conservative_inframe_deletion	KCNA3
structural_interaction_variant	KCNA3
structural_interaction_variant	KCNA3
structural_interaction_variant	LRIF1
structural_interaction_variant	LRIF1
structural_interaction_variant	LRIF1
structural_interaction_variant	LRIF1
structural_interaction_variant	DRAM2
structural_interaction_variant	CEPT1
structural_interaction_variant	CEPT1
frameshift_variant	DENND2D
structural_interaction_variant	CHI3L2

structural_interaction_variant	CHIA
structural_interaction_variant	CHIA
structural_interaction_variant	CHIA
structural_interaction_variant	CHIA
structural_interaction_variant	PIFO
structural_interaction_variant	PIFO
structural_interaction_variant	OVGP1
conservative_inframe_deletion	OVGP1
structural_interaction_variant	OVGP1
frameshift_variant	OVGP1
frameshift_variant	OVGP1
structural_interaction_variant	OVGP1
structural_interaction_variant	OVGP1
structural_interaction_variant	OVGP1
structural_interaction_variant	OVGP1
structural_interaction_variant	OVGP1
frameshift_variant	OVGP1
structural_interaction_variant	OVGP1
structural_interaction_variant	ATP5F1
structural_interaction_variant	ADORA3
structural_interaction_variant	ADORA3
structural_interaction_variant	ADORA3
structural_interaction_variant	ADORA3
structural_interaction_variant	ADORA3
structural_interaction_variant	RAP1A
structural_interaction_variant	RAP1A
structural_interaction_variant	DDX20
structural_interaction_variant	DDX20
structural_interaction_variant	DDX20
structural_interaction_variant	DDX20
structural_interaction_variant	KCND3
structural_interaction_variant	CTTNBP2NL
structural_interaction_variant	WNT2B
structural_interaction_variant	WNT2B
frameshift_variant	ST7L
structural_interaction_variant	ST7L
missense_variant&splice_region_variant	ST7L
structural_interaction_variant	ST7L
structural_interaction_variant	MOV10
structural_interaction_variant	MOV10
structural_interaction_variant	MOV10
structural_interaction_variant	MOV10
structural_interaction_variant	MOV10
structural_interaction_variant	MOV10
structural_interaction_variant	PPM1J
structural_interaction_variant	PPM1J
structural_interaction_variant	SLC16A1
structural_interaction_variant	MAGI3

structural_interaction_variant	MAGI3
structural_interaction_variant	MAGI3
structural_interaction_variant	MAGI3
structural_interaction_variant	MAGI3
structural_interaction_variant	MAGI3
structural_interaction_variant	MAGI3
structural_interaction_variant	MAGI3
structural_interaction_variant	PHTF1
structural_interaction_variant	PHTF1
frameshift_variant	PHTF1
structural_interaction_variant	PHTF1
structural_interaction_variant	PHTF1
structural_interaction_variant	PHTF1
missense_variant&splice_region_variant	PHTF1
frameshift_variant&start_lost	PHTF1
missense_variant&splice_region_variant	RSBN1
structural_interaction_variant	RSBN1
structural_interaction_variant	PTPN22
structural_interaction_variant	PTPN22
structural_interaction_variant	BCL2L15
structural_interaction_variant	BCL2L15
structural_interaction_variant	BCL2L15
structural_interaction_variant	BCL2L15
stop_gained	DCLRE1B
structural_interaction_variant	HIPK1
structural_interaction_variant	HIPK1
structural_interaction_variant	HIPK1
stop_gained	HIPK1
structural_interaction_variant	OLFML3
structural_interaction_variant	OLFML3
structural_interaction_variant	OLFML3
structural_interaction_variant	OLFML3
structural_interaction_variant	OLFML3
structural_interaction_variant	SYT6
structural_interaction_variant	SYT6
structural_interaction_variant	SYT6
structural_interaction_variant	TRIM33
structural_interaction_variant	TRIM33
structural_interaction_variant	TRIM33
frameshift_variant	BCAS2
structural_interaction_variant	BCAS2
stop_gained	DENND2C
structural_interaction_variant	DENND2C
frameshift_variant	DENND2C
structural_interaction_variant	DENND2C
structural_interaction_variant	DENND2C
stop_gained	DENND2C
structural_interaction_variant	DENND2C

structural_interaction_variant	AMPD1
structural_interaction_variant	AMPD1
structural_interaction_variant	AMPD1
structural_interaction_variant	AMPD1
structural_interaction_variant	AMPD1
structural_interaction_variant	AMPD1
structural_interaction_variant	CSDE1
structural_interaction_variant	CSDE1
structural_interaction_variant	SYCP1
structural_interaction_variant	SYCP1
structural_interaction_variant	SYCP1
missense_variant&splice_region_variant	TSHB
structural_interaction_variant	TSPAN2
stop_gained	TSPAN2
missense_variant&splice_region_variant	TSPAN2
frameshift_variant	TSPAN2
structural_interaction_variant	VANGL1
structural_interaction_variant	CASQ2
structural_interaction_variant	SLC22A15
structural_interaction_variant	SLC22A15
structural_interaction_variant	SLC22A15
structural_interaction_variant	SLC22A15
frameshift_variant&stop_gained	MAB21L3
structural_interaction_variant	MAB21L3
structural_interaction_variant	ATP1A1
structural_interaction_variant	IGSF3
structural_interaction_variant	IGSF3
structural_interaction_variant	IGSF3
structural_interaction_variant	PTGFRN
structural_interaction_variant	PTGFRN
structural_interaction_variant	CD101
structural_interaction_variant	CD101
structural_interaction_variant	CD101
structural_interaction_variant	CD101
structural_interaction_variant	CD101
structural_interaction_variant	CD101
structural_interaction_variant	TTF2
structural_interaction_variant	TTF2
structural_interaction_variant	VTCN1
structural_interaction_variant	MAN1A2
structural_interaction_variant	MAN1A2
structural_interaction_variant	MAN1A2
structural_interaction_variant	FAM46C
structural_interaction_variant	WDR3
structural_interaction_variant	WDR3
frameshift_variant	WDR3
conservative_inframe_deletion	WDR3
structural_interaction_variant	WDR3

structural_interaction_variant	WDR3
structural_interaction_variant	WDR3
structural_interaction_variant	SPAG17
structural_interaction_variant	SPAG17
structural_interaction_variant	SPAG17
splice_donor_variant&intron_variant	SPAG17
structural_interaction_variant	SPAG17
structural_interaction_variant	SPAG17
structural_interaction_variant	SPAG17
structural_interaction_variant	SPAG17
structural_interaction_variant	WARS2
structural_interaction_variant	WARS2
structural_interaction_variant	HAO2
missense_variant&splice_region_variant	HAO2
structural_interaction_variant	HAO2
structural_interaction_variant	HSD3B2
structural_interaction_variant	ZNF697
structural_interaction_variant	PHGDH
frameshift_variant	PHGDH
splice_donor_variant&intron_variant	PDE4DIP
structural_interaction_variant	PDE4DIP
structural_interaction_variant	PDE4DIP
structural_interaction_variant	PDE4DIP
missense_variant&splice_region_variant	PDE4DIP
splice_acceptor_variant&intron_variant	PDE4DIP
structural_interaction_variant	PDE4DIP
structural_interaction_variant	PDE4DIP
structural_interaction_variant	PDE4DIP
structural_interaction_variant	PDE4DIP
structural_interaction_variant	PDE4DIP
missense_variant&splice_region_variant	PDE4DIP
frameshift_variant	PDE4DIP
stop_gained	PDE4DIP
structural_interaction_variant	PDE4DIP
structural_interaction_variant	PDE4DIP
structural_interaction_variant	PDE4DIP
splice_donor_variant&intron_variant	PDE4DIP
missense_variant&splice_region_variant	PDE4DIP
structural_interaction_variant	PDE4DIP
structural_interaction_variant	PDE4DIP
structural_interaction_variant	PDE4DIP
stop_gained	PDE4DIP
structural_interaction_variant	HFE2
structural_interaction_variant	HFE2
structural_interaction_variant	TXNIP
stop_gained	TXNIP
structural_interaction_variant	TXNIP
missense_variant&splice_region_variant	TXNIP

structural_interaction_variant	TXNIP
structural_interaction_variant	TXNIP
structural_interaction_variant	TXNIP
structural_interaction_variant	POLR3GL
structural_interaction_variant	ITGA10
structural_interaction_variant	ITGA10
structural_interaction_variant	ITGA10
structural_interaction_variant	ITGA10
structural_interaction_variant	ITGA10
structural_interaction_variant	ITGA10
structural_interaction_variant	ANKRD35
structural_interaction_variant	ANKRD35
structural_interaction_variant	ANKRD35
stop_gained	ANKRD35
stop_gained	ANKRD35
structural_interaction_variant	ANKRD35
frameshift_variant	ANKRD35
structural_interaction_variant	ANKRD35
structural_interaction_variant	ANKRD35
frameshift_variant	PIAS3
structural_interaction_variant	NUDT17
structural_interaction_variant	NUDT17
structural_interaction_variant	POLR3C
structural_interaction_variant	POLR3C
structural_interaction_variant	POLR3C
structural_interaction_variant	RNF115
structural_interaction_variant	CD160
structural_interaction_variant	PRKAB2
structural_interaction_variant	FMO5
frameshift_variant	CHD1L
splice_donor_variant&intron_variant	CHD1L
structural_interaction_variant	CHD1L
structural_interaction_variant	BCL9
structural_interaction_variant	BCL9
structural_interaction_variant	BCL9
structural_interaction_variant	BCL9
structural_interaction_variant	BCL9
structural_interaction_variant	BCL9
structural_interaction_variant	BCL9
structural_interaction_variant	BCL9
structural_interaction_variant	BCL9
structural_interaction_variant	BCL9
structural_interaction_variant	ACP6
structural_interaction_variant	ACP6
structural_interaction_variant	GJA8
structural_interaction_variant	SV2A
structural_interaction_variant	SV2A
structural_interaction_variant	OTUD7B

structural_interaction_variant	PLEKHO1
structural_interaction_variant	ANP32E
structural_interaction_variant	C1orf51
structural_interaction_variant	C1orf51
structural_interaction_variant	C1orf51
structural_interaction_variant	RPRD2
missense_variant&splice_region_variant	RPRD2
structural_interaction_variant	RPRD2
missense_variant&splice_region_variant	RPRD2
structural_interaction_variant	RPRD2
structural_interaction_variant	RPRD2
structural_interaction_variant	RPRD2
structural_interaction_variant	RPRD2
structural_interaction_variant	RPRD2
structural_interaction_variant	RPRD2
structural_interaction_variant	RPRD2
structural_interaction_variant	TARS2
structural_interaction_variant	ADAMTSL4
structural_interaction_variant	ADAMTSL4
structural_interaction_variant	MCL1
structural_interaction_variant	MCL1
structural_interaction_variant	MCL1
structural_interaction_variant	MCL1
structural_interaction_variant	MCL1
structural_interaction_variant	MCL1
structural_interaction_variant	HORMAD1
structural_interaction_variant	ARNT
structural_interaction_variant	SETDB1
structural_interaction_variant	SETDB1
structural_interaction_variant	SETDB1
structural_interaction_variant	SETDB1
structural_interaction_variant	SETDB1
structural_interaction_variant	SETDB1
structural_interaction_variant	SETDB1
structural_interaction_variant	CERS2
structural_interaction_variant	CERS2
structural_interaction_variant	ANXA9
structural_interaction_variant	ANXA9
structural_interaction_variant	FAM63A
structural_interaction_variant	FAM63A
structural_interaction_variant	FAM63A
structural_interaction_variant	FAM63A
disruptive_inframe_deletion	FAM63A
structural_interaction_variant	FAM63A
structural_interaction_variant	PRUNE
structural_interaction_variant	PRUNE
structural_interaction_variant	C1orf56
structural_interaction_variant	CDC42SE1

structural_interaction_variant	GABPB2
structural_interaction_variant	GABPB2
structural_interaction_variant	GABPB2
structural_interaction_variant	GABPB2
frameshift_variant	GABPB2
structural_interaction_variant	SEMA6C
splice_acceptor_variant&intron_variant	SEMA6C
structural_interaction_variant	SEMA6C
structural_interaction_variant	TNFAIP8L2
structural_interaction_variant	SCNM1
splice_acceptor_variant&intron_variant	VPS72
structural_interaction_variant	ZNF687
structural_interaction_variant	ZNF687
structural_interaction_variant	ZNF687
structural_interaction_variant	ZNF687
structural_interaction_variant	ZNF687
structural_interaction_variant	PI4KB
frameshift_variant	PSMB4
structural_interaction_variant	PSMB4
structural_interaction_variant	POGZ
frameshift_variant	CGN
structural_interaction_variant	CGN
structural_interaction_variant	CGN
structural_interaction_variant	TUFT1
structural_interaction_variant	TUFT1
structural_interaction_variant	SNX27
structural_interaction_variant	SNX27
structural_interaction_variant	MRPL9
structural_interaction_variant	MRPL9
structural_interaction_variant	MRPL9
structural_interaction_variant	MRPL9
structural_interaction_variant	TDRKH
structural_interaction_variant	TDRKH
structural_interaction_variant	TDRKH
structural_interaction_variant	TDRKH
missense_variant&splice_region_variant	TDRKH
structural_interaction_variant	TDRKH
stop_gained	RORC
structural_interaction_variant	RORC
structural_interaction_variant	RORC
structural_interaction_variant	RORC
stop_gained	RORC
structural_interaction_variant	RORC
structural_interaction_variant	THEM5
structural_interaction_variant	S100A10
structural_interaction_variant	TCHHL1
structural_interaction_variant	TCHHL1
structural_interaction_variant	TCHHL1

structural_interaction_variant	TCHH
structural_interaction_variant	TCHH
structural_interaction_variant	TCHH
structural_interaction_variant	TCHH
structural_interaction_variant	TCHH
structural_interaction_variant	TCHH
structural_interaction_variant	TCHH
structural_interaction_variant	TCHH
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structural_interaction_variant	TCHH
structural_interaction_variant	TCHH
structural_interaction_variant	TCHH
structural_interaction_variant	TCHH
structural_interaction_variant	TCHH
structural_interaction_variant	TCHH
frameshift_variant	TCHH
structural_interaction_variant	TCHH
stop_gained	HRNR
structural_interaction_variant	HRNR
structural_interaction_variant	HRNR
structural_interaction_variant	HRNR
structural_interaction_variant	HRNR
structural_interaction_variant	HRNR
structural_interaction_variant	CRNN
structural_interaction_variant	CRNN
stop_gained	LCE3D
structural_interaction_variant	KPRP
structural_interaction_variant	KPRP
structural_interaction_variant	KPRP
stop_gained	KPRP
structural_interaction_variant	KPRP
structural_interaction_variant	KPRP
structural_interaction_variant	KPRP
structural_interaction_variant	SMCP
structural_interaction_variant	IVL
structural_interaction_variant	IVL
structural_interaction_variant	LELP1
stop_gained	PRR9
structural_interaction_variant	S100A4
structural_interaction_variant	S100A3
structural_interaction_variant	S100A2
start_lost	S100A2
structural_interaction_variant	S100A14
structural_interaction_variant	S100A13
structural_interaction_variant	ILF2
structural_interaction_variant	ILF2
structural_interaction_variant	SLC27A3
stop_gained&splice_region_variant	SLC27A3
structural_interaction_variant	DENND4B

structural_interaction_variant	DENND4B
structural_interaction_variant	DENND4B
structural_interaction_variant	CRTC2
structural_interaction_variant	CRTC2
structural_interaction_variant	CRTC2
structural_interaction_variant	SLC39A1
frameshift_variant	SLC39A1
structural_interaction_variant	RPS27
structural_interaction_variant	NUP210L
structural_interaction_variant	NUP210L
structural_interaction_variant	NUP210L
structural_interaction_variant	NUP210L
structural_interaction_variant	NUP210L
structural_interaction_variant	NUP210L
structural_interaction_variant	TPM3
structural_interaction_variant	TPM3
structural_interaction_variant	C1orf43
structural_interaction_variant	ATP8B2
structural_interaction_variant	ATP8B2
structural_interaction_variant	IL6R
structural_interaction_variant	IL6R
structural_interaction_variant	IL6R
structural_interaction_variant	IL6R
structural_interaction_variant	IL6R
frameshift_variant	IL6R
structural_interaction_variant	TDRD10
splice_donor_variant&intron_variant	TDRD10
structural_interaction_variant	ADAR
structural_interaction_variant	ADAR
structural_interaction_variant	ADAR
structural_interaction_variant	KCNN3
structural_interaction_variant	PBXIP1
structural_interaction_variant	PBXIP1
structural_interaction_variant	PBXIP1
structural_interaction_variant	SHC1
structural_interaction_variant	LENEP
structural_interaction_variant	DCST2
frameshift_variant	DCST1
structural_interaction_variant	DCST1
structural_interaction_variant	DCST1
structural_interaction_variant	ADAM15
stop_gained	ADAM15
structural_interaction_variant	ADAM15
structural_interaction_variant	ADAM15
structural_interaction_variant	ADAM15
structural_interaction_variant	EFNA4
structural_interaction_variant	EFNA1
structural_interaction_variant	DPM3

structural_interaction_variant	RP11-201K10.3
frameshift_variant	RP11-201K10.3
structural_interaction_variant	RP11-201K10.3
structural_interaction_variant	TRIM46
structural_interaction_variant	TRIM46
structural_interaction_variant	TRIM46
structural_interaction_variant	TRIM46
structural_interaction_variant	MUC1
stop_gained	MUC1
structural_interaction_variant	MUC1
structural_interaction_variant	THBS3
structural_interaction_variant	THBS3
structural_interaction_variant	THBS3
stop_gained&splice_region_variant	THBS3
structural_interaction_variant	MTX1
structural_interaction_variant	FAM189B
structural_interaction_variant	FAM189B
structural_interaction_variant	CLK2
structural_interaction_variant	PKLR
structural_interaction_variant	FDPS
structural_interaction_variant	RUSC1
structural_interaction_variant	ASH1L
structural_interaction_variant	GON4L
structural_interaction_variant	GON4L
structural_interaction_variant	GON4L
structural_interaction_variant	GON4L
structural_interaction_variant	GON4L
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structural_interaction_variant	GON4L
structural_interaction_variant	GON4L
structural_interaction_variant	GON4L
structural_interaction_variant	GON4L
structural_interaction_variant	KIAA0907
structural_interaction_variant	KIAA0907
structural_interaction_variant	KIAA0907
structural_interaction_variant	RXFP4
structural_interaction_variant	RXFP4
stop_gained	RXFP4
structural_interaction_variant	ARHGEF2
structural_interaction_variant	ARHGEF2
structural_interaction_variant	ARHGEF2
stop_gained	SSR2
structural_interaction_variant	RAB25
structural_interaction_variant	MEX3A
structural_interaction_variant	MEX3A
structural_interaction_variant	SEMA4A
structural_interaction_variant	SLC25A44

structural_interaction_variant	PMF1-BGLAP
structural_interaction_variant	PMF1-BGLAP
structural_interaction_variant	PMF1-BGLAP
structural_interaction_variant	PAQR6
structural_interaction_variant	PAQR6
structural_interaction_variant	PAQR6
structural_interaction_variant	PAQR6
structural_interaction_variant	SMG5
structural_interaction_variant	SMG5
structural_interaction_variant	SMG5
structural_interaction_variant	SMG5
frameshift_variant	TMEM79
structural_interaction_variant	TMEM79
structural_interaction_variant	TMEM79
structural_interaction_variant	TMEM79
structural_interaction_variant	C1orf85
structural_interaction_variant	VHLL
structural_interaction_variant	CCT3
structural_interaction_variant	CCT3
structural_interaction_variant	TSACC
structural_interaction_variant	TSACC
frameshift_variant	RHBG
structural_interaction_variant	RHBG
splice_acceptor_variant&intron_variant	C1orf61
structural_interaction_variant	MEF2D
structural_interaction_variant	MEF2D
structural_interaction_variant	MEF2D
structural_interaction_variant	IQGAP3
structural_interaction_variant	IQGAP3
structural_interaction_variant	IQGAP3
structural_interaction_variant	IQGAP3
structural_interaction_variant	APOA1BP
missense_variant&splice_region_variant	APOA1BP
structural_interaction_variant	APOA1BP
structural_interaction_variant	BCAN
structural_interaction_variant	BCAN
structural_interaction_variant	BCAN
structural_interaction_variant	BCAN
structural_interaction_variant	BCAN
structural_interaction_variant	BCAN
structural_interaction_variant	BCAN
structural_interaction_variant	BCAN
structural_interaction_variant	BCAN
stop_gained	NES
structural_interaction_variant	NES
splice_acceptor_variant&intron_variant	MRPL24
stop_gained	MRPL24
structural_interaction_variant	HDGF

structural_interaction_variant	HDGF
structural_interaction_variant	PRCC
structural_interaction_variant	INSRR
missense_variant&splice_region_variant	INSRR
structural_interaction_variant	INSRR
structural_interaction_variant	INSRR
structural_interaction_variant	INSRR
structural_interaction_variant	INSRR
structural_interaction_variant	INSRR
structural_interaction_variant	NTRK1
structural_interaction_variant	NTRK1
structural_interaction_variant	PEAR1
structural_interaction_variant	PEAR1
frameshift_variant	PEAR1
structural_interaction_variant	PEAR1
structural_interaction_variant	PEAR1
structural_interaction_variant	PEAR1
structural_interaction_variant	PEAR1
structural_interaction_variant	PEAR1
structural_interaction_variant	LRRC71
structural_interaction_variant	LRRC71
structural_interaction_variant	ARHGEF11
structural_interaction_variant	ARHGEF11
structural_interaction_variant	ARHGEF11
structural_interaction_variant	ARHGEF11
structural_interaction_variant	ARHGEF11
structural_interaction_variant	ARHGEF11
structural_interaction_variant	ARHGEF11
structural_interaction_variant	ETV3
structural_interaction_variant	FCRL5
structural_interaction_variant	FCRL5
structural_interaction_variant	FCRL5
structural_interaction_variant	FCRL5
structural_interaction_variant	FCRL5
structural_interaction_variant	FCRL5
structural_interaction_variant	FCRL4
structural_interaction_variant	FCRL4
splice_acceptor_variant&intron_variant	FCRL3
structural_interaction_variant	FCRL3
structural_interaction_variant	FCRL3
frameshift_variant	FCRL3
structural_interaction_variant	FCRL1
structural_interaction_variant	FCRL1
structural_interaction_variant	CD5L
structural_interaction_variant	KIRREL
structural_interaction_variant	KIRREL
structural_interaction_variant	KIRREL
structural_interaction_variant	CD1D

structural_interaction_variant	CD1D
frameshift_variant	CD1A
stop_gained	CD1A
structural_interaction_variant	CD1C
structural_interaction_variant	CD1B
structural_interaction_variant	CD1E
structural_interaction_variant	CD1E
structural_interaction_variant	OR10T2
structural_interaction_variant	OR10T2
structural_interaction_variant	OR10T2
structural_interaction_variant	OR10K1
structural_interaction_variant	OR10K1
frameshift_variant	OR10K1
structural_interaction_variant	OR10R2
structural_interaction_variant	OR10R2
structural_interaction_variant	OR10R2
structural_interaction_variant	OR10R2
structural_interaction_variant	OR10R2
structural_interaction_variant	OR6Y1
structural_interaction_variant	OR6Y1
structural_interaction_variant	OR6P1
structural_interaction_variant	OR10X1
structural_interaction_variant	OR10X1
structural_interaction_variant	OR10Z1
structural_interaction_variant	OR10Z1
structural_interaction_variant	OR10Z1
structural_interaction_variant	OR10Z1
structural_interaction_variant	OR10Z1
structural_interaction_variant	OR10Z1
structural_interaction_variant	SPTA1
structural_interaction_variant	SPTA1
structural_interaction_variant	SPTA1
structural_interaction_variant	SPTA1
structural_interaction_variant	SPTA1
structural_interaction_variant	SPTA1
structural_interaction_variant	OR6K2
frameshift_variant	OR6K2
structural_interaction_variant	OR6K3
structural_interaction_variant	OR6K6
structural_interaction_variant	OR6K6
structural_interaction_variant	OR6N1
structural_interaction_variant	OR6N1
structural_interaction_variant	OR6N1
structural_interaction_variant	OR6N2
structural_interaction_variant	OR6N2
structural_interaction_variant	OR6N2
structural_interaction_variant	MNDA

structural_interaction_variant	IFI16
structural_interaction_variant	IFI16
structural_interaction_variant	IFI16
structural_interaction_variant	IFI16
structural_interaction_variant	IFI16
structural_interaction_variant	IFI16
structural_interaction_variant	IFI16
missense_variant&splice_region_variant	AIM2
structural_interaction_variant	AIM2
structural_interaction_variant	AIM2
structural_interaction_variant	AIM2
structural_interaction_variant	CADM3
structural_interaction_variant	CADM3
structural_interaction_variant	DARC
frameshift_variant	DARC
structural_interaction_variant	DARC
structural_interaction_variant	DARC
structural_interaction_variant	DARC
structural_interaction_variant	DARC
structural_interaction_variant	DARC
structural_interaction_variant	FCER1A
structural_interaction_variant	OR10J3
structural_interaction_variant	OR10J3
frameshift_variant	OR10J3
structural_interaction_variant	OR10J3
structural_interaction_variant	OR10J1
structural_interaction_variant	OR10J1
structural_interaction_variant	OR10J1
structural_interaction_variant	OR10J5
structural_interaction_variant	APCS
missense_variant&splice_region_variant	FCRL6
structural_interaction_variant	FCRL6
structural_interaction_variant	FCRL6
structural_interaction_variant	SLAMF8
structural_interaction_variant	VSIG8
structural_interaction_variant	VSIG8
stop_gained	VSIG8
structural_interaction_variant	CCDC19
structural_interaction_variant	TAGLN2
structural_interaction_variant	IGSF9
structural_interaction_variant	IGSF9
stop_gained	IGSF9
structural_interaction_variant	IGSF9
missense_variant&splice_region_variant	IGSF9
stop_gained	IGSF9
structural_interaction_variant	IGSF8
structural_interaction_variant	IGSF8
structural_interaction_variant	ATP1A2

start_lost	ATP1A4
structural_interaction_variant	ATP1A4
structural_interaction_variant	ATP1A4
structural_interaction_variant	ATP1A4
structural_interaction_variant	ATP1A4
structural_interaction_variant	CASQ1
structural_interaction_variant	PEA15
structural_interaction_variant	PEA15
structural_interaction_variant	DCAF8
structural_interaction_variant	COPA
structural_interaction_variant	VANGL2
structural_interaction_variant	SLAMF6
structural_interaction_variant	CD84
structural_interaction_variant	CD48
structural_interaction_variant	LY9
structural_interaction_variant	LY9
frameshift_variant	LY9
structural_interaction_variant	CD244
structural_interaction_variant	CD244
structural_interaction_variant	CD244
structural_interaction_variant	CD244
structural_interaction_variant	CD244
structural_interaction_variant	CD244
structural_interaction_variant	ITLN1
stop_gained	ITLN1
structural_interaction_variant	ITLN2
structural_interaction_variant	ITLN2
structural_interaction_variant	ITLN2
structural_interaction_variant	F11R
structural_interaction_variant	ARHGAP30
structural_interaction_variant	ARHGAP30
structural_interaction_variant	ARHGAP30
frameshift_variant	ARHGAP30
structural_interaction_variant	ARHGAP30
structural_interaction_variant	ARHGAP30
structural_interaction_variant	ARHGAP30
structural_interaction_variant	ARHGAP30
structural_interaction_variant	ARHGAP30
structural_interaction_variant	ARHGAP30
structural_interaction_variant	ARHGAP30
frameshift_variant	NIT1
structural_interaction_variant	NIT1
structural_interaction_variant	DEDD
structural_interaction_variant	DEDD
structural_interaction_variant	DEDD
stop_gained&splice_region_variant	UFC1
structural_interaction_variant	UFC1
structural_interaction_variant	PPOX

structural_interaction_variant	B4GALT3
structural_interaction_variant	ADAMTS4
structural_interaction_variant	ADAMTS4
structural_interaction_variant	ADAMTS4
structural_interaction_variant	ADAMTS4
stop_gained	AL590714.1
structural_interaction_variant	TOMM40L
structural_interaction_variant	TOMM40L
structural_interaction_variant	FCGR2A
frameshift_variant	FCRLA
structural_interaction_variant	FCRLA
missense_variant&splice_region_variant	FCRLB
structural_interaction_variant	FCRLB
structural_interaction_variant	DUSP12
structural_interaction_variant	DUSP12
structural_interaction_variant	OLFML2B
frameshift_variant	OLFML2B
structural_interaction_variant	OLFML2B
structural_interaction_variant	OLFML2B
stop_gained	C1orf111
structural_interaction_variant	C1orf226
structural_interaction_variant	C1orf226
structural_interaction_variant	C1orf226
structural_interaction_variant	SH2D1B
structural_interaction_variant	UHMK1
structural_interaction_variant	UHMK1
structural_interaction_variant	UAP1
structural_interaction_variant	UAP1
stop_gained	UAP1
structural_interaction_variant	DDR2
stop_gained	NUF2
structural_interaction_variant	NUF2
stop_gained	RXRG
structural_interaction_variant	LRRC52
structural_interaction_variant	LRRC52
stop_gained	MGST3
structural_interaction_variant	ALDH9A1
structural_interaction_variant	ALDH9A1
missense_variant&splice_region_variant	ALDH9A1
frameshift_variant	TMCO1
structural_interaction_variant	POGK
structural_interaction_variant	POGK
stop_gained	POGK
structural_interaction_variant	TADA1
structural_interaction_variant	TADA1
structural_interaction_variant	GPA33
structural_interaction_variant	DUSP27
structural_interaction_variant	DUSP27

structural_interaction_variant	DUSP27
conservative_inframe_deletion	DUSP27
structural_interaction_variant	DUSP27
structural_interaction_variant	DUSP27
structural_interaction_variant	DUSP27
structural_interaction_variant	POU2F1
structural_interaction_variant	POU2F1
structural_interaction_variant	CD247
structural_interaction_variant	CD247
structural_interaction_variant	MPC2
structural_interaction_variant	DCAF6
structural_interaction_variant	DCAF6
stop_gained	DCAF6
structural_interaction_variant	DCAF6
missense_variant&splice_region_variant	DCAF6
frameshift_variant	GPR161
frameshift_variant	GPR161
structural_interaction_variant	GPR161
structural_interaction_variant	GPR161
structural_interaction_variant	GPR161
structural_interaction_variant	GPR161
splice_donor_variant&intron_variant	XCL2
structural_interaction_variant	XCL2
structural_interaction_variant	NME7
structural_interaction_variant	BLZF1
stop_gained	CCDC181
stop_gained	CCDC181
structural_interaction_variant	SLC19A2
structural_interaction_variant	SLC19A2
structural_interaction_variant	F5
structural_interaction_variant	SELP
structural_interaction_variant	SELP
structural_interaction_variant	SELP
structural_interaction_variant	SELP
structural_interaction_variant	SELP
structural_interaction_variant	SELL
structural_interaction_variant	SELL
structural_interaction_variant	SELE
structural_interaction_variant	SELE
structural_interaction_variant	METTL18
stop_gained	METTL18
structural_interaction_variant	METTL18
structural_interaction_variant	METTL18
stop_gained	C1orf112
structural_interaction_variant	C1orf112
structural_interaction_variant	C1orf112
structural_interaction_variant	C1orf112
structural_interaction_variant	C1orf112

structural_interaction_variant	C1orf112
missense_variant&splice_region_variant	C1orf112
structural_interaction_variant	C1orf112
structural_interaction_variant	C1orf112
structural_interaction_variant	KIFAP3
structural_interaction_variant	KIFAP3
structural_interaction_variant	KIFAP3
structural_interaction_variant	METTL11B
structural_interaction_variant	METTL11B
structural_interaction_variant	GORAB
structural_interaction_variant	GORAB
structural_interaction_variant	PRRX1
missense_variant&splice_region_variant	MROH9
structural_interaction_variant	MROH9
structural_interaction_variant	MROH9
structural_interaction_variant	FMO3
structural_interaction_variant	FMO2
structural_interaction_variant	FMO2
structural_interaction_variant	FMO2
structural_interaction_variant	FMO2
start_lost	FMO1
structural_interaction_variant	FMO1
structural_interaction_variant	FMO1
splice_donor_variant&splice_region_variant&intron_	FMO1
structural_interaction_variant	FMO1
frameshift_variant	FMO4
disruptive_inframe_deletion	PRRC2C
structural_interaction_variant	PRRC2C
structural_interaction_variant	PRRC2C
structural_interaction_variant	PRRC2C
structural_interaction_variant	PRRC2C
structural_interaction_variant	PRRC2C
structural_interaction_variant	PRRC2C
structural_interaction_variant	PRRC2C
structural_interaction_variant	PRRC2C
structural_interaction_variant	PRRC2C
structural_interaction_variant	PRRC2C
structural_interaction_variant	MYOC
structural_interaction_variant	VAMP4
structural_interaction_variant	VAMP4
frameshift_variant	METTL13
structural_interaction_variant	METTL13
structural_interaction_variant	METTL13
structural_interaction_variant	DNM3
stop_gained	DNM3
structural_interaction_variant	PIGC
structural_interaction_variant	SUCO
structural_interaction_variant	SLC9C2
structural_interaction_variant	SLC9C2

structural_interaction_variant	SLC9C2
structural_interaction_variant	SLC9C2
missense_variant&splice_region_variant	SLC9C2
stop_gained	ANKRD45
structural_interaction_variant	KLHL20
structural_interaction_variant	KLHL20
structural_interaction_variant	KLHL20
structural_interaction_variant	CENPL
splice_donor_variant&intron_variant	DARS2
stop_gained	DARS2
structural_interaction_variant	DARS2
frameshift_variant	DARS2
structural_interaction_variant	DARS2
structural_interaction_variant	RC3H1
structural_interaction_variant	RC3H1
structural_interaction_variant	RC3H1
structural_interaction_variant	RC3H1
structural_interaction_variant	RC3H1
disruptive_inframe_deletion	RABGAP1L
structural_interaction_variant	RABGAP1L
start_lost	GPR52
structural_interaction_variant	GPR52
structural_interaction_variant	GPR52
structural_interaction_variant	GPR52
structural_interaction_variant	GPR52
structural_interaction_variant	RABGAP1L
missense_variant&splice_region_variant	RABGAP1L
structural_interaction_variant	RABGAP1L
structural_interaction_variant	RABGAP1L
structural_interaction_variant	RABGAP1L
stop_gained	TNN
structural_interaction_variant	TNN
structural_interaction_variant	TNN
structural_interaction_variant	TNN
structural_interaction_variant	TNN
stop_gained	TNR
structural_interaction_variant	TNR
structural_interaction_variant	TNR
structural_interaction_variant	TNR
structural_interaction_variant	TNR
structural_interaction_variant	TNR
structural_interaction_variant	TNR
structural_interaction_variant	TNR
structural_interaction_variant	ASTN1
structural_interaction_variant	ASTN1
structural_interaction_variant	ASTN1
structural_interaction_variant	ASTN1

structural_interaction_variant	ASTN1
structural_interaction_variant	ASTN1
structural_interaction_variant	ASTN1
structural_interaction_variant	ASTN1
structural_interaction_variant	ASTN1
structural_interaction_variant	BRINP2
structural_interaction_variant	BRINP2
structural_interaction_variant	SEC16B
splice_donor_variant&intron_variant	SEC16B
structural_interaction_variant	SEC16B
structural_interaction_variant	SEC16B
structural_interaction_variant	SEC16B
structural_interaction_variant	SEC16B
structural_interaction_variant	RASAL2
structural_interaction_variant	RASAL2
splice_acceptor_variant&5_prime_UTR_variant&intr	TEX35
structural_interaction_variant	RALGPS2
structural_interaction_variant	ANGPTL1
structural_interaction_variant	ANGPTL1
structural_interaction_variant	ANGPTL1
stop_gained	RALGPS2
splice_donor_variant&intron_variant	RALGPS2
structural_interaction_variant	RALGPS2
structural_interaction_variant	FAM20B
frameshift_variant	TOR3A
structural_interaction_variant	TOR3A
structural_interaction_variant	TOR3A
structural_interaction_variant	ABL2
structural_interaction_variant	ABL2
structural_interaction_variant	ABL2
splice_donor_variant&intron_variant	SOAT1
missense_variant&splice_region_variant	SOAT1
frameshift_variant	SOAT1
structural_interaction_variant	SOAT1
structural_interaction_variant	SOAT1
structural_interaction_variant	NPHS2
structural_interaction_variant	TDRD5
structural_interaction_variant	TDRD5
structural_interaction_variant	TDRD5
structural_interaction_variant	TDRD5
stop_gained	TDRD5
structural_interaction_variant	CEP350
structural_interaction_variant	CEP350
structural_interaction_variant	CEP350
structural_interaction_variant	CEP350
missense_variant&splice_region_variant	CEP350
structural_interaction_variant	CEP350
structural_interaction_variant	CEP350

structural_interaction_variant	CEP350
structural_interaction_variant	CEP350
structural_interaction_variant	QSOX1
stop_gained	QSOX1
structural_interaction_variant	LHX4
structural_interaction_variant	KIAA1614
frameshift_variant	KIAA1614
structural_interaction_variant	KIAA1614
structural_interaction_variant	KIAA1614
stop_gained	KIAA1614
structural_interaction_variant	STX6
structural_interaction_variant	STX6
structural_interaction_variant	MR1
structural_interaction_variant	MR1
structural_interaction_variant	IER5
structural_interaction_variant	CACNA1E
structural_interaction_variant	CACNA1E
structural_interaction_variant	ZNF648
structural_interaction_variant	ZNF648
structural_interaction_variant	ZNF648
structural_interaction_variant	ZNF648
structural_interaction_variant	ZNF648
structural_interaction_variant	ZNF648
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structural_interaction_variant	ZNF648
structural_interaction_variant	ZNF648
frameshift_variant	TEDDM1
structural_interaction_variant	TEDDM1
structural_interaction_variant	TEDDM1
disruptive_inframe_deletion	RGSL1
structural_interaction_variant	RGSL1
structural_interaction_variant	RGSL1
structural_interaction_variant	RGSL1
structural_interaction_variant	RGSL1
splice_acceptor_variant&intron_variant	RGSL1
structural_interaction_variant	RGSL1
structural_interaction_variant	RGSL1
splice_donor_variant&intron_variant	RGSL1
structural_interaction_variant	RNASEL
structural_interaction_variant	RGS16
structural_interaction_variant	RGS16
structural_interaction_variant	RGS8
structural_interaction_variant	NPL
splice_acceptor_variant&intron_variant	NPL
structural_interaction_variant	NPL
structural_interaction_variant	DHX9

structural_interaction_variant	DHX9
structural_interaction_variant	DHX9
structural_interaction_variant	DHX9
structural_interaction_variant	LAMC1
structural_interaction_variant	LAMC1
structural_interaction_variant	LAMC1
structural_interaction_variant	LAMC1
structural_interaction_variant	LAMC1
structural_interaction_variant	LAMC1
structural_interaction_variant	LAMC1
structural_interaction_variant	LAMC1
structural_interaction_variant	LAMC1
structural_interaction_variant	LAMC1
structural_interaction_variant	SMG7
structural_interaction_variant	NCF2
structural_interaction_variant	NCF2
structural_interaction_variant	NCF2
structural_interaction_variant	APOBEC4
structural_interaction_variant	APOBEC4
structural_interaction_variant	APOBEC4
structural_interaction_variant	APOBEC4
structural_interaction_variant	RGL1
structural_interaction_variant	RGL1
structural_interaction_variant	RGL1
structural_interaction_variant	RGL1
structural_interaction_variant	RGL1
structural_interaction_variant	RGL1
structural_interaction_variant	COLGALT2
structural_interaction_variant	COLGALT2
structural_interaction_variant	COLGALT2
structural_interaction_variant	FAM129A
frameshift_variant	FAM129A
structural_interaction_variant	FAM129A
frameshift_variant	FAM129A
structural_interaction_variant	FAM129A
structural_interaction_variant	FAM129A
frameshift_variant	FAM129A
missense_variant&splice_region_variant	FAM129A
structural_interaction_variant	FAM129A
structural_interaction_variant	FAM129A
splice_donor_variant&intron_variant	TRMT1L
structural_interaction_variant	TRMT1L
structural_interaction_variant	TRMT1L
structural_interaction_variant	TRMT1L
structural_interaction_variant	SWT1
structural_interaction_variant	SWT1
structural_interaction_variant	SWT1
structural_interaction_variant	SWT1
structural_interaction_variant	SWT1

structural_interaction_variant	SWT1
frameshift_variant&stop_gained	SWT1
structural_interaction_variant	IVNS1ABP
structural_interaction_variant	HMCN1
structural_interaction_variant	HMCN1
structural_interaction_variant	HMCN1
structural_interaction_variant	HMCN1
structural_interaction_variant	HMCN1
structural_interaction_variant	HMCN1
structural_interaction_variant	HMCN1
structural_interaction_variant	HMCN1
structural_interaction_variant	HMCN1
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structural_interaction_variant	HMCN1
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structural_interaction_variant	HMCN1
structural_interaction_variant	HMCN1
structural_interaction_variant	HMCN1
structural_interaction_variant	HMCN1
structural_interaction_variant	PRG4
structural_interaction_variant	PRG4
structural_interaction_variant	TPR
structural_interaction_variant	TPR
structural_interaction_variant	TPR
structural_interaction_variant	TPR
structural_interaction_variant	TPR
structural_interaction_variant	TPR
missense_variant&splice_region_variant	TPR
structural_interaction_variant	TPR
structural_interaction_variant	TPR
stop_gained	OCLM
structural_interaction_variant	PDC
structural_interaction_variant	PDC
structural_interaction_variant	PDC
frameshift_variant&start_lost	PDC
structural_interaction_variant	PTGS2
structural_interaction_variant	PTGS2

missense_variant&splice_region_variant	PLA2G4A
structural_interaction_variant	PLA2G4A
structural_interaction_variant	BRINP3
structural_interaction_variant	RGS18
structural_interaction_variant	RGS18
structural_interaction_variant	RGS1
structural_interaction_variant	RGS2
structural_interaction_variant	RGS2
structural_interaction_variant	RGS2
structural_interaction_variant	TROVE2
stop_gained	GLRX2
structural_interaction_variant	KCNT2
structural_interaction_variant	KCNT2
structural_interaction_variant	KCNT2
structural_interaction_variant	CFH
structural_interaction_variant	CFH
structural_interaction_variant	CFHR4
structural_interaction_variant	CFHR4
structural_interaction_variant	CFHR2
structural_interaction_variant	CFHR5
structural_interaction_variant	CFHR5
structural_interaction_variant	CFHR5
structural_interaction_variant	F13B
structural_interaction_variant	F13B
structural_interaction_variant	F13B
structural_interaction_variant	ASPM
stop_gained	ASPM
stop_gained	ASPM
stop_gained	ASPM
structural_interaction_variant	ASPM
structural_interaction_variant	ASPM
structural_interaction_variant	ASPM
structural_interaction_variant	ASPM
structural_interaction_variant	ZBTB41
structural_interaction_variant	ZBTB41
structural_interaction_variant	ZBTB41
structural_interaction_variant	ZBTB41
structural_interaction_variant	ZBTB41
structural_interaction_variant	DENND1B
structural_interaction_variant	DENND1B
structural_interaction_variant	LHX9
structural_interaction_variant	LHX9
structural_interaction_variant	LHX9
structural_interaction_variant	LHX9
stop_gained	NEK7
structural_interaction_variant	ATP6V1G3
structural_interaction_variant	ATP6V1G3
structural_interaction_variant	PTPRC

structural_interaction_variant	PTPRC
structural_interaction_variant	PTPRC
structural_interaction_variant	PTPRC
frameshift_variant	PTPRC
frameshift_variant	NR5A2
structural_interaction_variant	NR5A2
structural_interaction_variant	KIF14
structural_interaction_variant	DDX59
structural_interaction_variant	DDX59
frameshift_variant	DDX59
structural_interaction_variant	CAMSAP2
structural_interaction_variant	CAMSAP2
structural_interaction_variant	CAMSAP2
structural_interaction_variant	CAMSAP2
structural_interaction_variant	CAMSAP2
structural_interaction_variant	CAMSAP2
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structural_interaction_variant	CAMSAP2
structural_interaction_variant	CAMSAP2
structural_interaction_variant	CAMSAP2
structural_interaction_variant	CAMSAP2
missense_variant&splice_region_variant	CAMSAP2
structural_interaction_variant	CAMSAP2
structural_interaction_variant	CAMSAP2
structural_interaction_variant	CAMSAP2
structural_interaction_variant	CAMSAP2
structural_interaction_variant	GPR25
structural_interaction_variant	GPR25
structural_interaction_variant	GPR25
structural_interaction_variant	KIF21B
structural_interaction_variant	KIF21B
structural_interaction_variant	KIF21B
structural_interaction_variant	KIF21B
structural_interaction_variant	KIF21B
structural_interaction_variant	KIF21B
structural_interaction_variant	KIF21B
structural_interaction_variant	KIF21B
structural_interaction_variant	CACNA1S
structural_interaction_variant	IGFN1
structural_interaction_variant	IGFN1
splice_donor_variant&intron_variant	IGFN1
structural_interaction_variant	IGFN1
structural_interaction_variant	IGFN1
structural_interaction_variant	PKP1
structural_interaction_variant	LAD1
structural_interaction_variant	PHLDA3
structural_interaction_variant	PHLDA3
structural_interaction_variant	PHLDA3

structural_interaction_variant	NAV1
structural_interaction_variant	NAV1
structural_interaction_variant	NAV1
structural_interaction_variant	NAV1
structural_interaction_variant	NAV1
missense_variant&splice_region_variant	NAV1
structural_interaction_variant	NAV1
structural_interaction_variant	NAV1
structural_interaction_variant	IPO9
structural_interaction_variant	IPO9
structural_interaction_variant	IPO9
structural_interaction_variant	IPO9
structural_interaction_variant	IPO9
structural_interaction_variant	SHISA4
structural_interaction_variant	LMOD1
structural_interaction_variant	LMOD1
structural_interaction_variant	LMOD1
missense_variant&splice_region_variant	TIMM17A
frameshift_variant&stop_gained	TIMM17A
splice_donor_variant&intron_variant	RNPEP
structural_interaction_variant	ELF3
structural_interaction_variant	GPR37L1
structural_interaction_variant	GPR37L1
structural_interaction_variant	ARL8A
structural_interaction_variant	ARL8A
structural_interaction_variant	LGR6
missense_variant&splice_region_variant	LGR6
structural_interaction_variant	LGR6
structural_interaction_variant	PPP1R12B
structural_interaction_variant	PPP1R12B
frameshift_variant&splice_donor_variant&splice_reg	SYT2
frameshift_variant	KDM5B
structural_interaction_variant	KDM5B
structural_interaction_variant	KLHL12
structural_interaction_variant	KLHL12
structural_interaction_variant	CYB5R1
structural_interaction_variant	PPFIA4
structural_interaction_variant	PPFIA4
structural_interaction_variant	PPFIA4
structural_interaction_variant	PPFIA4
structural_interaction_variant	MYOG
structural_interaction_variant	ADORA1
structural_interaction_variant	MYBPH
structural_interaction_variant	CHI3L1
structural_interaction_variant	CHI3L1
structural_interaction_variant	CHIT1
structural_interaction_variant	CHIT1
structural_interaction_variant	CHIT1

structural_interaction_variant	CHIT1
structural_interaction_variant	FMOD
stop_gained	FMOD
stop_gained	FMOD
structural_interaction_variant	ATP2B4
structural_interaction_variant	LAX1
structural_interaction_variant	LAX1
structural_interaction_variant	ZC3H11A
structural_interaction_variant	ZC3H11A
structural_interaction_variant	SOX13
frameshift_variant	ETNK2
structural_interaction_variant	ETNK2
structural_interaction_variant	REN
structural_interaction_variant	GOLT1A
structural_interaction_variant	PLEKHA6
structural_interaction_variant	PLEKHA6
structural_interaction_variant	PLEKHA6
structural_interaction_variant	PLEKHA6
structural_interaction_variant	PLEKHA6
frameshift_variant	PPP1R15B
structural_interaction_variant	PPP1R15B
structural_interaction_variant	PPP1R15B
structural_interaction_variant	PPP1R15B
structural_interaction_variant	PPP1R15B
structural_interaction_variant	PPP1R15B
structural_interaction_variant	PPP1R15B
structural_interaction_variant	PPP1R15B
structural_interaction_variant	PPP1R15B
structural_interaction_variant	PPP1R15B
structural_interaction_variant	PIK3C2B
structural_interaction_variant	PIK3C2B
structural_interaction_variant	PIK3C2B
structural_interaction_variant	PIK3C2B
structural_interaction_variant	PIK3C2B
structural_interaction_variant	PIK3C2B
stop_gained	PIK3C2B
structural_interaction_variant	PIK3C2B
structural_interaction_variant	PIK3C2B
structural_interaction_variant	PIK3C2B
structural_interaction_variant	LRRN2
structural_interaction_variant	LRRN2
frameshift_variant	LRRN2
structural_interaction_variant	NFASC
structural_interaction_variant	NFASC
structural_interaction_variant	NFASC
structural_interaction_variant	NFASC
structural_interaction_variant	NFASC
structural_interaction_variant	NFASC

structural_interaction_variant	CNTN2
structural_interaction_variant	TMEM81
structural_interaction_variant	RBBP5
frameshift_variant	TMCC2
structural_interaction_variant	TMCC2
structural_interaction_variant	NUAK2
structural_interaction_variant	NUAK2
stop_gained	KLHDC8A
splice_acceptor_variant&splice_region_variant&5_pr	CDK18
structural_interaction_variant	CDK18
structural_interaction_variant	CDK18
structural_interaction_variant	CDK18
splice_acceptor_variant&intron_variant	CDK18
frameshift_variant	MFSD4
structural_interaction_variant	ELK4
structural_interaction_variant	SLC45A3
structural_interaction_variant	NUCKS1
structural_interaction_variant	RAB7L1
structural_interaction_variant	RAB7L1
structural_interaction_variant	SLC41A1
structural_interaction_variant	SLC41A1
structural_interaction_variant	SLC41A1
structural_interaction_variant	SLC41A1
structural_interaction_variant	PM20D1
structural_interaction_variant	PM20D1
splice_acceptor_variant&intron_variant	SLC26A9
structural_interaction_variant	SLC26A9
structural_interaction_variant	SLC26A9
structural_interaction_variant	SLC26A9
structural_interaction_variant	SLC26A9
splice_acceptor_variant&intron_variant	C1orf186
structural_interaction_variant	CTSE
structural_interaction_variant	CTSE
splice_acceptor_variant&intron_variant	CTSE
splice_donor_variant&intron_variant	CTSE
frameshift_variant	CTSE
structural_interaction_variant	IKBKE
structural_interaction_variant	IKBKE
structural_interaction_variant	IKBKE
structural_interaction_variant	IKBKE
missense_variant&splice_region_variant	IKBKE
structural_interaction_variant	RASSF5
structural_interaction_variant	RASSF5
structural_interaction_variant	EIF2D
structural_interaction_variant	DYRK3
frameshift_variant	DYRK3
structural_interaction_variant	DYRK3
structural_interaction_variant	MAPKAPK2

structural_interaction_variant	IL10
structural_interaction_variant	IL10
frameshift_variant	IL19
structural_interaction_variant	IL19
structural_interaction_variant	IL19
missense_variant&splice_region_variant	IL20
splice_donor_variant&intron_variant	IL24
structural_interaction_variant	IL24
structural_interaction_variant	FAIM3
structural_interaction_variant	FAIM3
structural_interaction_variant	PIGR
structural_interaction_variant	PIGR
structural_interaction_variant	PIGR
structural_interaction_variant	PIGR
structural_interaction_variant	PIGR
structural_interaction_variant	FCAMR
structural_interaction_variant	FCAMR
structural_interaction_variant	FCAMR
frameshift_variant	C1orf116
structural_interaction_variant	C1orf116
missense_variant&splice_region_variant	PFKFB2
structural_interaction_variant	PFKFB2
structural_interaction_variant	PFKFB2
stop_gained	PFKFB2
stop_gained	PFKFB2
structural_interaction_variant	PFKFB2
structural_interaction_variant	C4BPB
stop_gained	CR1
structural_interaction_variant	CD46
structural_interaction_variant	PLXNA2
structural_interaction_variant	PLXNA2
structural_interaction_variant	PLXNA2
structural_interaction_variant	PLXNA2
structural_interaction_variant	PLXNA2
structural_interaction_variant	LAMB3
frameshift_variant	LAMB3
structural_interaction_variant	HSD11B1
structural_interaction_variant	TRAF3IP3
structural_interaction_variant	TRAF3IP3
splice_donor_variant&intron_variant	TRAF3IP3
frameshift_variant	C1orf74
structural_interaction_variant	DIEXF
splice_acceptor_variant&intron_variant	DIEXF
structural_interaction_variant	DIEXF
structural_interaction_variant	DIEXF
structural_interaction_variant	SYT14
structural_interaction_variant	SYT14
structural_interaction_variant	SYT14

structural_interaction_variant	SYT14
stop_gained	HHAT
structural_interaction_variant	HHAT
structural_interaction_variant	HHAT
structural_interaction_variant	HHAT
structural_interaction_variant	HHAT
structural_interaction_variant	RCOR3
structural_interaction_variant	RCOR3
frameshift_variant	TRAF5
missense_variant&splice_region_variant	TRAF5
structural_interaction_variant	TRAF5
structural_interaction_variant	TRAF5
stop_gained	TRAF5
structural_interaction_variant	SLC30A1
structural_interaction_variant	INTS7
structural_interaction_variant	INTS7
structural_interaction_variant	INTS7
structural_interaction_variant	PPP2R5A
frameshift_variant&splice_acceptor_variant&splice_r	PPP2R5A
structural_interaction_variant	TMEM206
structural_interaction_variant	TMEM206
missense_variant&splice_region_variant	TMEM206
structural_interaction_variant	TMEM206
structural_interaction_variant	TMEM206
structural_interaction_variant	TMEM206
splice_acceptor_variant&intron_variant	TMEM206
structural_interaction_variant	TMEM206
structural_interaction_variant	FAM71A
frameshift_variant	NSL1
structural_interaction_variant	NSL1
structural_interaction_variant	TATDN3
structural_interaction_variant	TATDN3
structural_interaction_variant	VASH2
structural_interaction_variant	VASH2
structural_interaction_variant	VASH2
missense_variant&splice_region_variant	VASH2
structural_interaction_variant	ANGEL2
stop_gained	ANGEL2
missense_variant&splice_region_variant	RPS6KC1
structural_interaction_variant	RPS6KC1
structural_interaction_variant	RPS6KC1
stop_gained	RPS6KC1
structural_interaction_variant	SMYD2
structural_interaction_variant	SMYD2
structural_interaction_variant	PTPN14
structural_interaction_variant	PTPN14
structural_interaction_variant	PTPN14
stop_gained	PTPN14

structural_interaction_variant	PTPN14
structural_interaction_variant	PTPN14
structural_interaction_variant	CENPF
structural_interaction_variant	USH2A
structural_interaction_variant	USH2A
structural_interaction_variant	USH2A
structural_interaction_variant	USH2A
structural_interaction_variant	USH2A
structural_interaction_variant	USH2A
structural_interaction_variant	ESRRG
structural_interaction_variant	GPATCH2
structural_interaction_variant	GPATCH2
structural_interaction_variant	SPATA17
structural_interaction_variant	SPATA17
structural_interaction_variant	RRP15
structural_interaction_variant	RRP15
structural_interaction_variant	RRP15
structural_interaction_variant	RRP15
structural_interaction_variant	RRP15
structural_interaction_variant	LYPLAL1
structural_interaction_variant	LYPLAL1
missense_variant&splice_region_variant	EPRS
structural_interaction_variant	BPNT1
structural_interaction_variant	BPNT1
structural_interaction_variant	IARS2
structural_interaction_variant	MARK1
structural_interaction_variant	MARC2
structural_interaction_variant	MARC2
structural_interaction_variant	MARC2
structural_interaction_variant	MARC2
structural_interaction_variant	MARC2
splice_acceptor_variant&intron_variant	MARC2
structural_interaction_variant	MARC1
structural_interaction_variant	MARC1
structural_interaction_variant	MARC1
structural_interaction_variant	HLX
structural_interaction_variant	HLX
structural_interaction_variant	HHIPL2
frameshift_variant	HHIPL2
structural_interaction_variant	HHIPL2
structural_interaction_variant	HHIPL2
structural_interaction_variant	HHIPL2
structural_interaction_variant	HHIPL2
structural_interaction_variant	HHIPL2
stop_gained	HHIPL2
stop_gained	TAF1A
structural_interaction_variant	MIA3
structural_interaction_variant	MIA3

structural_interaction_variant	MIA3
structural_interaction_variant	MIA3
structural_interaction_variant	MIA3
structural_interaction_variant	MIA3
stop_gained	MIA3
structural_interaction_variant	MIA3
structural_interaction_variant	MIA3
structural_interaction_variant	BROX
structural_interaction_variant	TLR5
structural_interaction_variant	TLR5
structural_interaction_variant	TLR5
structural_interaction_variant	TLR5
structural_interaction_variant	SUSD4
structural_interaction_variant	SUSD4
structural_interaction_variant	C1orf65
structural_interaction_variant	C1orf65
structural_interaction_variant	C1orf65
stop_gained	CAPN8
structural_interaction_variant	CAPN8
structural_interaction_variant	CAPN2
structural_interaction_variant	CAPN2
structural_interaction_variant	TP53BP2
structural_interaction_variant	TP53BP2
structural_interaction_variant	FBXO28
structural_interaction_variant	FBXO28
structural_interaction_variant	DEGS1
structural_interaction_variant	DEGS1
structural_interaction_variant	DEGS1
splice_donor_variant&intron_variant	NVL
structural_interaction_variant	NVL
structural_interaction_variant	CNIH4
splice_donor_variant&intron_variant	CNIH4
splice_acceptor_variant&intron_variant	DNAH14
missense_variant&splice_region_variant	DNAH14
frameshift_variant	DNAH14
structural_interaction_variant	DNAH14
structural_interaction_variant	DNAH14
structural_interaction_variant	DNAH14
structural_interaction_variant	DNAH14
structural_interaction_variant	DNAH14
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structural_interaction_variant	DNAH14
structural_interaction_variant	DNAH14
structural_interaction_variant	DNAH14

splice_acceptor_variant&intron_variant	DNAH14
structural_interaction_variant	DNAH14
structural_interaction_variant	DNAH14
structural_interaction_variant	LBR
structural_interaction_variant	SRP9
structural_interaction_variant	EPHX1
structural_interaction_variant	EPHX1
structural_interaction_variant	EPHX1
structural_interaction_variant	TMEM63A
structural_interaction_variant	TMEM63A
structural_interaction_variant	LEFTY1
structural_interaction_variant	LEFTY2
stop_gained	ACBD3
structural_interaction_variant	ACBD3
structural_interaction_variant	ACBD3
structural_interaction_variant	LIN9
structural_interaction_variant	PARP1
structural_interaction_variant	PARP1
structural_interaction_variant	ADCK3
structural_interaction_variant	ADCK3
stop_gained	ADCK3
structural_interaction_variant	ADCK3
structural_interaction_variant	ADCK3
structural_interaction_variant	ZNF678
stop_gained	ZNF678
structural_interaction_variant	JMJD4
structural_interaction_variant	SNAP47
structural_interaction_variant	SNAP47
structural_interaction_variant	WNT9A
structural_interaction_variant	WNT9A
structural_interaction_variant	WNT3A
structural_interaction_variant	C1orf35
structural_interaction_variant	MRPL55
structural_interaction_variant	GUK1
structural_interaction_variant	GUK1
structural_interaction_variant	GJC2
frameshift_variant	IBA57
structural_interaction_variant	OBSCN
splice_acceptor_variant&intron_variant	OBSCN
structural_interaction_variant	OBSCN
structural_interaction_variant	OBSCN
structural_interaction_variant	OBSCN
structural_interaction_variant	OBSCN
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structural_interaction_variant	OBSCN
structural_interaction_variant	OBSCN
structural_interaction_variant	OBSCN
structural_interaction_variant	OBSCN
structural_interaction_variant	OBSCN
frameshift_variant	OBSCN
structural_interaction_variant	OBSCN
structural_interaction_variant	OBSCN
structural_interaction_variant	TRIM17
structural_interaction_variant	TRIM17
stop_gained	TRIM17
structural_interaction_variant	TRIM17
structural_interaction_variant	TRIM17
structural_interaction_variant	RHOU
structural_interaction_variant	RHOU
structural_interaction_variant	RAB4A
structural_interaction_variant	RAB4A
structural_interaction_variant	NUP133
structural_interaction_variant	URB2
structural_interaction_variant	URB2
structural_interaction_variant	URB2
structural_interaction_variant	URB2
structural_interaction_variant	URB2
structural_interaction_variant	GALNT2
structural_interaction_variant	GALNT2
structural_interaction_variant	CAPN9
structural_interaction_variant	CAPN9
stop_gained	C1orf198
structural_interaction_variant	C1orf198
stop_gained	TTC13
structural_interaction_variant	TRIM67
structural_interaction_variant	TRIM67
frameshift_variant	C1orf131
structural_interaction_variant	C1orf131
stop_gained	GNPAT
structural_interaction_variant	EXOC8

structural_interaction_variant	EXOC8
structural_interaction_variant	EXOC8
structural_interaction_variant	EXOC8
structural_interaction_variant	EXOC8
structural_interaction_variant	TSNAX
structural_interaction_variant	SIPA1L2
structural_interaction_variant	SIPA1L2
structural_interaction_variant	SIPA1L2
structural_interaction_variant	SIPA1L2
missense_variant&splice_region_variant	SIPA1L2
structural_interaction_variant	SIPA1L2
structural_interaction_variant	MAP10
structural_interaction_variant	MAP10
structural_interaction_variant	MAP10
structural_interaction_variant	MAP10
structural_interaction_variant	MAP10
structural_interaction_variant	MAP10
structural_interaction_variant	MAP10
structural_interaction_variant	MAP10
structural_interaction_variant	MAP10
structural_interaction_variant	MAP10
frameshift_variant	MAP10
structural_interaction_variant	MAP10
structural_interaction_variant	PCNXL2
structural_interaction_variant	PCNXL2
structural_interaction_variant	PCNXL2
structural_interaction_variant	PCNXL2
structural_interaction_variant	PCNXL2
splice_donor_variant&intron_variant	PCNXL2
structural_interaction_variant	PCNXL2
structural_interaction_variant	PCNXL2
structural_interaction_variant	PCNXL2
structural_interaction_variant	PCNXL2
structural_interaction_variant	MLK4
structural_interaction_variant	KCNK1
structural_interaction_variant	KCNK1
structural_interaction_variant	SLC35F3
structural_interaction_variant	SLC35F3
structural_interaction_variant	COA6
structural_interaction_variant	COA6
structural_interaction_variant	TARBP1
structural_interaction_variant	TARBP1
structural_interaction_variant	TARBP1
structural_interaction_variant	TARBP1
structural_interaction_variant	TARBP1
stop_gained	TARBP1
structural_interaction_variant	TARBP1
structural_interaction_variant	TARBP1

structural_interaction_variant	TARBP1
structural_interaction_variant	TARBP1
structural_interaction_variant	TARBP1
structural_interaction_variant	TARBP1
structural_interaction_variant	TARBP1
structural_interaction_variant	RBM34
structural_interaction_variant	ARID4B
stop_gained	TBCE
structural_interaction_variant	LYST
structural_interaction_variant	NID1
structural_interaction_variant	NID1
structural_interaction_variant	NID1
structural_interaction_variant	NID1
structural_interaction_variant	NID1
structural_interaction_variant	NID1
structural_interaction_variant	ERO1LB
splice_donor_variant&splice_region_variant&intron_	ERO1LB
stop_gained	EDARADD
stop_gained	LGALS8
structural_interaction_variant	HEATR1
structural_interaction_variant	HEATR1
structural_interaction_variant	HEATR1
structural_interaction_variant	HEATR1
structural_interaction_variant	HEATR1
structural_interaction_variant	HEATR1
structural_interaction_variant	HEATR1
conservative_inframe_deletion	HEATR1
structural_interaction_variant	HEATR1
structural_interaction_variant	ACTN2
structural_interaction_variant	ACTN2
structural_interaction_variant	ACTN2
structural_interaction_variant	ACTN2
structural_interaction_variant	ACTN2
structural_interaction_variant	RYR2
structural_interaction_variant	RYR2
structural_interaction_variant	RYR2
structural_interaction_variant	RYR2
structural_interaction_variant	RYR2
frameshift_variant	RYR2
structural_interaction_variant	RYR2
structural_interaction_variant	ZP4
structural_interaction_variant	ZP4
structural_interaction_variant	ZP4
structural_interaction_variant	ZP4
stop_gained	ZP4
frameshift_variant&splice_donor_variant&splice_reg	ZP4
structural_interaction_variant	ZP4
structural_interaction_variant	CHRM3

structural_interaction_variant	CHRM3
structural_interaction_variant	CHRM3
structural_interaction_variant	FMN2
structural_interaction_variant	GREM2
structural_interaction_variant	GREM2
structural_interaction_variant	RGS7
stop_gained	FH
stop_gained	OPN3
structural_interaction_variant	WDR64
structural_interaction_variant	WDR64
frameshift_variant	EXO1
structural_interaction_variant	CEP170
structural_interaction_variant	CEP170
frameshift_variant	SDCCAG8
structural_interaction_variant	ZBTB18
structural_interaction_variant	C1orf100
structural_interaction_variant	C1orf100
structural_interaction_variant	C1orf101
structural_interaction_variant	C1orf101
structural_interaction_variant	C1orf101
structural_interaction_variant	C1orf101
structural_interaction_variant	EFCAB2
structural_interaction_variant	EFCAB2
structural_interaction_variant	KIF26B
structural_interaction_variant	KIF26B
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structural_interaction_variant	KIF26B
structural_interaction_variant	KIF26B
structural_interaction_variant	KIF26B
structural_interaction_variant	KIF26B
frameshift_variant	KIF26B
structural_interaction_variant	KIF26B
structural_interaction_variant	KIF26B
structural_interaction_variant	KIF26B
structural_interaction_variant	SMYD3
structural_interaction_variant	SMYD3
structural_interaction_variant	SMYD3
structural_interaction_variant	SMYD3
structural_interaction_variant	CNST
structural_interaction_variant	CNST
structural_interaction_variant	SCCPDH
structural_interaction_variant	AHCTF1
missense_variant&splice_region_variant	AHCTF1
structural_interaction_variant	ZNF670
stop_gained	ZNF670
structural_interaction_variant	ZNF669

structural_interaction_variant	ZNF669
structural_interaction_variant	ZNF669
structural_interaction_variant	ZNF496
structural_interaction_variant	ZNF496
structural_interaction_variant	ZNF496
structural_interaction_variant	ZNF496
structural_interaction_variant	ZNF496
structural_interaction_variant	NLRP3
structural_interaction_variant	NLRP3
structural_interaction_variant	NLRP3
structural_interaction_variant	OR2B11
structural_interaction_variant	OR2B11
structural_interaction_variant	OR2B11
frameshift_variant	OR2C3
structural_interaction_variant	OR2C3
structural_interaction_variant	OR2G2
structural_interaction_variant	OR2G3
structural_interaction_variant	OR2G3
structural_interaction_variant	OR13G1
structural_interaction_variant	OR13G1
structural_interaction_variant	OR13G1
structural_interaction_variant	OR6F1
structural_interaction_variant	OR1C1
structural_interaction_variant	OR1C1
structural_interaction_variant	OR1C1
structural_interaction_variant	OR1C1
structural_interaction_variant	OR14A16
stop_gained	OR14A16
stop_gained	OR14A16
structural_interaction_variant	OR14A16
structural_interaction_variant	OR14A16
structural_interaction_variant	OR14A16
structural_interaction_variant	OR11L1
frameshift_variant	OR11L1
structural_interaction_variant	TRIM58
structural_interaction_variant	OR2W3
frameshift_variant	OR2W3
structural_interaction_variant	OR2AK2
structural_interaction_variant	OR2AK2
structural_interaction_variant	OR2L13
structural_interaction_variant	OR2L13
structural_interaction_variant	OR2L13
structural_interaction_variant	OR2L13
structural_interaction_variant	OR2T4
structural_interaction_variant	OR2T6
structural_interaction_variant	OR2T6
structural_interaction_variant	OR2T6
structural_interaction_variant	OR2T1

structural_interaction_variant	OR2T1
structural_interaction_variant	OR2G6
structural_interaction_variant	OR2G6
frameshift_variant	OR2G6
structural_interaction_variant	OR2G6
structural_interaction_variant	OR2T10
structural_interaction_variant	OR2T10
structural_interaction_variant	OR2T11
structural_interaction_variant	OR2T11
structural_interaction_variant	OR2T11
structural_interaction_variant	OR2T11
structural_interaction_variant	OR2T11
structural_interaction_variant	ZNF692
structural_interaction_variant	ZNF692
structural_interaction_variant	ZNF692
structural_interaction_variant	ZNF692
disruptive_inframe_deletion	PGBD2
structural_interaction_variant	PGBD2
splice_donor_variant&splice_region_variant&intron_	SH3YL1
frameshift_variant	ACP1
frameshift_variant	ACP1
missense_variant&splice_region_variant	SNTG2
structural_interaction_variant	SNTG2
structural_interaction_variant	SNTG2
structural_interaction_variant	PXDN
structural_interaction_variant	TSSC1
frameshift_variant	TRAPPC12
structural_interaction_variant	TRAPPC12
stop_gained	ADI1
structural_interaction_variant	ALLC
structural_interaction_variant	ALLC
structural_interaction_variant	DCDC2C
structural_interaction_variant	DCDC2C
stop_gained	DCDC2C
structural_interaction_variant	CMPK2
stop_gained	RSAD2
structural_interaction_variant	RSAD2
structural_interaction_variant	RSAD2
structural_interaction_variant	MBOAT2
structural_interaction_variant	ASAP2
structural_interaction_variant	ASAP2
structural_interaction_variant	ASAP2
structural_interaction_variant	CPSF3
structural_interaction_variant	CPSF3
frameshift_variant	ADAM17
structural_interaction_variant	YWHAQ
structural_interaction_variant	TAF1B
structural_interaction_variant	TAF1B

structural_interaction_variant	TAF1B
structural_interaction_variant	GRHL1
structural_interaction_variant	KLF11
structural_interaction_variant	RRM2
structural_interaction_variant	RRM2
structural_interaction_variant	NOL10
structural_interaction_variant	NOL10
splice_donor_variant&intron_variant	NOL10
structural_interaction_variant	NOL10
structural_interaction_variant	NOL10
structural_interaction_variant	ATP6V1C2
structural_interaction_variant	PDIA6
structural_interaction_variant	KCNF1
structural_interaction_variant	KCNF1
structural_interaction_variant	ROCK2
structural_interaction_variant	ROCK2
structural_interaction_variant	ROCK2
structural_interaction_variant	ROCK2
structural_interaction_variant	ROCK2
structural_interaction_variant	GREB1
structural_interaction_variant	GREB1
structural_interaction_variant	GREB1
structural_interaction_variant	GREB1
structural_interaction_variant	GREB1
structural_interaction_variant	GREB1
structural_interaction_variant	GREB1
structural_interaction_variant	GREB1
frameshift_variant	LPIN1
frameshift_variant	LPIN1
structural_interaction_variant	TRIB2
structural_interaction_variant	FAM84A
structural_interaction_variant	FAM84A
structural_interaction_variant	NBAS
structural_interaction_variant	NBAS
structural_interaction_variant	NBAS
structural_interaction_variant	NBAS
structural_interaction_variant	NBAS
structural_interaction_variant	NBAS
structural_interaction_variant	DDX1
structural_interaction_variant	DDX1
structural_interaction_variant	DDX1
structural_interaction_variant	RAD51AP2
structural_interaction_variant	RAD51AP2
structural_interaction_variant	RAD51AP2
structural_interaction_variant	RAD51AP2
structural_interaction_variant	RAD51AP2
structural_interaction_variant	RAD51AP2
structural_interaction_variant	SMC6

structural_interaction_variant	SMC6
structural_interaction_variant	SMC6
structural_interaction_variant	MSGN1
structural_interaction_variant	MSGN1
structural_interaction_variant	KCNS3
structural_interaction_variant	KCNS3
structural_interaction_variant	KCNS3
structural_interaction_variant	KCNS3
structural_interaction_variant	RDH14
stop_gained	NT5C1B-RDH14
structural_interaction_variant	NT5C1B-RDH14
structural_interaction_variant	NT5C1B-RDH14
missense_variant&splice_region_variant	NT5C1B-RDH14
structural_interaction_variant	NT5C1B-RDH14
structural_interaction_variant	NT5C1B-RDH14
structural_interaction_variant	NT5C1B-RDH14
frameshift_variant	NT5C1B-RDH14
structural_interaction_variant	NT5C1B
structural_interaction_variant	OSR1
structural_interaction_variant	TTC32
stop_gained	WDR35
splice_donor_variant&intron_variant	WDR35
missense_variant&splice_region_variant	MATN3
structural_interaction_variant	MATN3
structural_interaction_variant	LAPTM4A
structural_interaction_variant	LAPTM4A
structural_interaction_variant	LAPTM4A
structural_interaction_variant	LAPTM4A
structural_interaction_variant	SDC1
structural_interaction_variant	SDC1
structural_interaction_variant	SDC1
structural_interaction_variant	SDC1
structural_interaction_variant	PUM2
structural_interaction_variant	RHOB
structural_interaction_variant	C2orf43
structural_interaction_variant	APOB
structural_interaction_variant	TDRD15
structural_interaction_variant	TDRD15
structural_interaction_variant	TDRD15
structural_interaction_variant	TDRD15
structural_interaction_variant	TDRD15
stop_gained	TDRD15
structural_interaction_variant	TDRD15
structural_interaction_variant	TDRD15
structural_interaction_variant	TDRD15
structural_interaction_variant	TDRD15
structural_interaction_variant	TDRD15
structural_interaction_variant	TDRD15

structural_interaction_variant	AC011239.1
structural_interaction_variant	AC011239.1
structural_interaction_variant	AC011239.1
structural_interaction_variant	KLHL29
structural_interaction_variant	KLHL29
structural_interaction_variant	KLHL29
structural_interaction_variant	ATAD2B
structural_interaction_variant	ATAD2B
structural_interaction_variant	ATAD2B
structural_interaction_variant	MFSD2B
splice_acceptor_variant&intron_variant	MFSD2B
structural_interaction_variant	C2orf44
structural_interaction_variant	C2orf44
structural_interaction_variant	SF3B14
frameshift_variant	TP53I3
structural_interaction_variant	RP11-507M3.1
structural_interaction_variant	ITSN2
structural_interaction_variant	NCOA1
structural_interaction_variant	NCOA1
structural_interaction_variant	NCOA1
structural_interaction_variant	NCOA1
structural_interaction_variant	NCOA1
structural_interaction_variant	NCOA1
structural_interaction_variant	NCOA1
structural_interaction_variant	PTRHD1
frameshift_variant	PTRHD1
structural_interaction_variant	ADCY3
structural_interaction_variant	DTNB
structural_interaction_variant	KIF3C
structural_interaction_variant	KIF3C
structural_interaction_variant	KIF3C
structural_interaction_variant	KIF3C
structural_interaction_variant	GAREML
stop_gained	GAREML
structural_interaction_variant	GAREML
structural_interaction_variant	GAREML
structural_interaction_variant	HADHA
structural_interaction_variant	HADHA
structural_interaction_variant	HADHA
structural_interaction_variant	HADHA
structural_interaction_variant	HADHB
structural_interaction_variant	HADHB
stop_gained	GPR113
structural_interaction_variant	GPR113
structural_interaction_variant	EPT1
structural_interaction_variant	EPT1
structural_interaction_variant	EPT1
structural_interaction_variant	DRC1

stop_lost	DRC1
structural_interaction_variant	OTOF
structural_interaction_variant	OTOF
structural_interaction_variant	OTOF
structural_interaction_variant	OTOF
structural_interaction_variant	OTOF
structural_interaction_variant	OTOF
structural_interaction_variant	OTOF
structural_interaction_variant	OTOF
structural_interaction_variant	OTOF
frameshift_variant	C2orf70
structural_interaction_variant	CIB4
structural_interaction_variant	SLC35F6
structural_interaction_variant	CENPA
structural_interaction_variant	DPYSL5
structural_interaction_variant	MAPRE3
structural_interaction_variant	MAPRE3
structural_interaction_variant	MAPRE3
protein_protein_contact	MAPRE3
structural_interaction_variant	TMEM214
structural_interaction_variant	EMILIN1
structural_interaction_variant	KHK
structural_interaction_variant	KHK
structural_interaction_variant	KHK
structural_interaction_variant	KHK
structural_interaction_variant	KHK
structural_interaction_variant	KHK
frameshift_variant&splice_acceptor_variant&splice_r	CGREF1
splice_donor_variant&conservative_inframe_deletior	CGREF1
structural_interaction_variant	CGREF1
structural_interaction_variant	ABHD1
structural_interaction_variant	ABHD1
frameshift_variant&stop_gained	ABHD1
frameshift_variant	ABHD1
structural_interaction_variant	ABHD1
structural_interaction_variant	PREB
structural_interaction_variant	PREB
structural_interaction_variant	C2orf53
structural_interaction_variant	TCF23
structural_interaction_variant	TCF23
stop_gained	SLC5A6
structural_interaction_variant	SLC5A6
structural_interaction_variant	SLC5A6
structural_interaction_variant	CAD
structural_interaction_variant	CAD
structural_interaction_variant	CAD
structural_interaction_variant	CAD
stop_gained	CAD

structural_interaction_variant	CAD
structural_interaction_variant	CAD
structural_interaction_variant	CAD
structural_interaction_variant	CAD
structural_interaction_variant	DNAJC5G
structural_interaction_variant	DNAJC5G
structural_interaction_variant	DNAJC5G
disruptive_inframe_deletion	DNAJC5G
structural_interaction_variant	GTF3C2
structural_interaction_variant	GTF3C2
structural_interaction_variant	ZNF513
structural_interaction_variant	PPM1G
structural_interaction_variant	NRBP1
missense_variant&splice_region_variant	KRTCAP3
structural_interaction_variant	KRTCAP3
frameshift_variant	IFT172
splice_donor_variant&intron_variant	GCKR
structural_interaction_variant	GCKR
stop_gained	GCKR
missense_variant&splice_region_variant	GCKR
structural_interaction_variant	C2orf16
frameshift_variant	C2orf16
structural_interaction_variant	C2orf16
structural_interaction_variant	C2orf16
structural_interaction_variant	C2orf16
structural_interaction_variant	C2orf16
structural_interaction_variant	C2orf16
structural_interaction_variant	C2orf16
conservative_inframe_deletion	C2orf16
structural_interaction_variant	ZNF512
stop_gained	ZNF512
structural_interaction_variant	CCDC121
structural_interaction_variant	ZNF512
structural_interaction_variant	SUPT7L
structural_interaction_variant	SLC4A1AP
structural_interaction_variant	RBKS
frameshift_variant	RBKS
structural_interaction_variant	RBKS
stop_gained	PLB1
structural_interaction_variant	PLB1
structural_interaction_variant	PLB1
splice_acceptor_variant&intron_variant	PLB1
frameshift_variant	PLB1
stop_gained	PLB1
structural_interaction_variant	PLB1
structural_interaction_variant	PLB1
structural_interaction_variant	SPDYA
structural_interaction_variant	TRMT61B

structural_interaction_variant	WDR43
structural_interaction_variant	FAM179A
structural_interaction_variant	FAM179A
structural_interaction_variant	FAM179A
structural_interaction_variant	FAM179A
splice_acceptor_variant&intron_variant	FAM179A
structural_interaction_variant	FAM179A
structural_interaction_variant	FAM179A
structural_interaction_variant	FAM179A
structural_interaction_variant	FAM179A
structural_interaction_variant	C2orf71
frameshift_variant	C2orf71
structural_interaction_variant	C2orf71
structural_interaction_variant	C2orf71
structural_interaction_variant	C2orf71
structural_interaction_variant	C2orf71
structural_interaction_variant	C2orf71
frameshift_variant	C2orf71
frameshift_variant	C2orf71
structural_interaction_variant	C2orf71
structural_interaction_variant	C2orf71
structural_interaction_variant	C2orf71
structural_interaction_variant	C2orf71
structural_interaction_variant	C2orf71
structural_interaction_variant	CLIP4
structural_interaction_variant	CLIP4
structural_interaction_variant	ALK
structural_interaction_variant	ALK
structural_interaction_variant	CAPN13
frameshift_variant	CAPN13
structural_interaction_variant	CAPN13
structural_interaction_variant	GALNT14
stop_gained	GALNT14
structural_interaction_variant	CAPN14
structural_interaction_variant	CAPN14
structural_interaction_variant	CAPN14
structural_interaction_variant	CAPN14
structural_interaction_variant	CAPN14
structural_interaction_variant	EHD3
structural_interaction_variant	EHD3
structural_interaction_variant	EHD3
structural_interaction_variant	EHD3
structural_interaction_variant	EHD3
structural_interaction_variant	SLC30A6
structural_interaction_variant	SLC30A6
structural_interaction_variant	SLC30A6
structural_interaction_variant	SLC30A6
structural_interaction_variant	BIRC6

structural_interaction_variant	BIRC6
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structural_interaction_variant	BIRC6
structural_interaction_variant	BIRC6
structural_interaction_variant	BIRC6
structural_interaction_variant	BIRC6
missense_variant&splice_region_variant	BIRC6
missense_variant&splice_region_variant	BIRC6
structural_interaction_variant	BIRC6
missense_variant&splice_region_variant	BIRC6
structural_interaction_variant	TTC27
structural_interaction_variant	TTC27
structural_interaction_variant	TTC27
structural_interaction_variant	TTC27
structural_interaction_variant	LTBP1
structural_interaction_variant	LTBP1
missense_variant&splice_region_variant	LTBP1
structural_interaction_variant	LTBP1
structural_interaction_variant	LTBP1
structural_interaction_variant	LTBP1
structural_interaction_variant	RASGRP3
structural_interaction_variant	RASGRP3
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structural_interaction_variant	RASGRP3
structural_interaction_variant	FAM98A
structural_interaction_variant	FAM98A
structural_interaction_variant	FAM98A
structural_interaction_variant	CRIM1
structural_interaction_variant	CRIM1
structural_interaction_variant	CRIM1
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structural_interaction_variant	CRIM1
structural_interaction_variant	CRIM1

structural_interaction_variant	CRIM1
structural_interaction_variant	CRIM1
structural_interaction_variant	FEZ2
structural_interaction_variant	FEZ2
missense_variant&splice_region_variant	VIT
structural_interaction_variant	VIT
frameshift_variant	VIT
frameshift_variant	VIT
structural_interaction_variant	STRN
structural_interaction_variant	HEATR5B
structural_interaction_variant	HEATR5B
structural_interaction_variant	HEATR5B
structural_interaction_variant	HEATR5B
stop_gained	HEATR5B
structural_interaction_variant	HEATR5B
structural_interaction_variant	HEATR5B
structural_interaction_variant	HEATR5B
stop_gained	HEATR5B
structural_interaction_variant	HEATR5B
structural_interaction_variant	HEATR5B
structural_interaction_variant	HEATR5B
structural_interaction_variant	HEATR5B
structural_interaction_variant	EIF2AK2
structural_interaction_variant	EIF2AK2
structural_interaction_variant	EIF2AK2
structural_interaction_variant	EIF2AK2
structural_interaction_variant	SULT6B1
splice_donor_variant&intron_variant	SULT6B1
structural_interaction_variant	CEBPZ
structural_interaction_variant	CEBPZ
structural_interaction_variant	CEBPZ
structural_interaction_variant	CEBPZ
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structural_interaction_variant	CEBPZ
structural_interaction_variant	PRKD3
structural_interaction_variant	QPCT
structural_interaction_variant	QPCT
structural_interaction_variant	CDC42EP3
structural_interaction_variant	CDC42EP3
stop_gained	RMDN2
missense_variant&splice_region_variant	RMDN2
structural_interaction_variant	ATL2
missense_variant&splice_region_variant	ATL2
structural_interaction_variant	HNRNPLL

structural_interaction_variant	GALM
structural_interaction_variant	GALM
structural_interaction_variant	GALM
structural_interaction_variant	GALM
structural_interaction_variant	DHX57
missense_variant&splice_region_variant	DHX57
structural_interaction_variant	DHX57
structural_interaction_variant	DHX57
structural_interaction_variant	DHX57
structural_interaction_variant	DHX57
frameshift_variant	DHX57
structural_interaction_variant	DHX57
frameshift_variant	DHX57
structural_interaction_variant	DHX57
structural_interaction_variant	DHX57
structural_interaction_variant	ARHGEF33
structural_interaction_variant	ARHGEF33
structural_interaction_variant	ARHGEF33
structural_interaction_variant	ARHGEF33
structural_interaction_variant	ARHGEF33
structural_interaction_variant	SOS1
structural_interaction_variant	SOS1
structural_interaction_variant	MAP4K3
structural_interaction_variant	MAP4K3
structural_interaction_variant	MAP4K3
structural_interaction_variant	TMEM178A
frameshift_variant&splice_region_variant	THUMPD2
structural_interaction_variant	THUMPD2
structural_interaction_variant	SLC8A1
structural_interaction_variant	SLC8A1
structural_interaction_variant	SLC8A1
structural_interaction_variant	C2orf91
structural_interaction_variant	EML4
structural_interaction_variant	EML4
structural_interaction_variant	EML4
structural_interaction_variant	EML4
structural_interaction_variant	EML4
frameshift_variant	EML4
structural_interaction_variant	KCNG3
structural_interaction_variant	MTA3
structural_interaction_variant	OXER1
structural_interaction_variant	ZFP36L2
frameshift_variant	THADA
missense_variant&splice_region_variant	THADA
structural_interaction_variant	THADA
structural_interaction_variant	THADA
structural_interaction_variant	THADA
structural_interaction_variant	THADA

missense_variant&splice_region_variant	THADA
structural_interaction_variant	THADA
structural_interaction_variant	THADA
structural_interaction_variant	THADA
splice_donor_variant&intron_variant	THADA
structural_interaction_variant	THADA
structural_interaction_variant	THADA
structural_interaction_variant	THADA
structural_interaction_variant	PLEKHH2
structural_interaction_variant	PLEKHH2
structural_interaction_variant	PLEKHH2
structural_interaction_variant	PLEKHH2
structural_interaction_variant	PLEKHH2
splice_acceptor_variant&intron_variant	PLEKHH2
structural_interaction_variant	PLEKHH2
structural_interaction_variant	PLEKHH2
structural_interaction_variant	PLEKHH2
structural_interaction_variant	PLEKHH2
structural_interaction_variant	PLEKHH2
structural_interaction_variant	PLEKHH2
frameshift_variant	DYNC2LI1
structural_interaction_variant	ABCG8
frameshift_variant	LRPPRC
structural_interaction_variant	LRPPRC
structural_interaction_variant	LRPPRC
structural_interaction_variant	PPM1B
structural_interaction_variant	SLC3A1
structural_interaction_variant	SLC3A1
structural_interaction_variant	SLC3A1
stop_gained	SLC3A1
stop_gained	SLC3A1
structural_interaction_variant	SLC3A1
frameshift_variant	PREPL
structural_interaction_variant	CAMKMT
structural_interaction_variant	SIX2
structural_interaction_variant	SRBD1
structural_interaction_variant	SRBD1
structural_interaction_variant	SRBD1
structural_interaction_variant	SRBD1
structural_interaction_variant	SRBD1
structural_interaction_variant	SRBD1
frameshift_variant	SRBD1
structural_interaction_variant	SRBD1
missense_variant&splice_region_variant	SRBD1
splice_donor_variant&intron_variant	SRBD1
structural_interaction_variant	PRKCE
structural_interaction_variant	EPAS1
structural_interaction_variant	EPAS1

structural_interaction_variant	TMEM247
structural_interaction_variant	SOCS5
stop_gained	LINC01118
structural_interaction_variant	C2orf61
structural_interaction_variant	C2orf61
structural_interaction_variant	C2orf61
structural_interaction_variant	C2orf61
structural_interaction_variant	C2orf61
structural_interaction_variant	EPCAM
structural_interaction_variant	MSH2
structural_interaction_variant	MSH6
structural_interaction_variant	FOXN2
structural_interaction_variant	FOXN2
structural_interaction_variant	FOXN2
structural_interaction_variant	FOXN2
splice_donor_variant&intron_variant	PPP1R21
stop_gained	PPP1R21
structural_interaction_variant	PPP1R21
structural_interaction_variant	PPP1R21
structural_interaction_variant	PPP1R21
structural_interaction_variant	PPP1R21
structural_interaction_variant	STON1
structural_interaction_variant	STON1
structural_interaction_variant	STON1
structural_interaction_variant	STON1
structural_interaction_variant	STON1
missense_variant&splice_region_variant	LHCGR
structural_interaction_variant	LHCGR
structural_interaction_variant	GPR75-ASB3
structural_interaction_variant	GPR75-ASB3
structural_interaction_variant	GPR75-ASB3
structural_interaction_variant	CHAC2
structural_interaction_variant	ERLEC1
structural_interaction_variant	ERLEC1
structural_interaction_variant	GPR75
structural_interaction_variant	PSME4
structural_interaction_variant	PSME4
structural_interaction_variant	PSME4
missense_variant&splice_region_variant	PSME4
structural_interaction_variant	PSME4
structural_interaction_variant	PSME4
structural_interaction_variant	ACYP2
structural_interaction_variant	C2orf73
structural_interaction_variant	C2orf73
structural_interaction_variant	SPTBN1
structural_interaction_variant	SPTBN1
structural_interaction_variant	SPTBN1
structural_interaction_variant	SPTBN1

structural_interaction_variant	SPTBN1
structural_interaction_variant	EML6
structural_interaction_variant	EML6
structural_interaction_variant	EML6
structural_interaction_variant	RTN4
structural_interaction_variant	RTN4
structural_interaction_variant	RTN4
structural_interaction_variant	CLHC1
structural_interaction_variant	CLHC1
structural_interaction_variant	MTIF2
structural_interaction_variant	MTIF2
missense_variant&splice_region_variant	MTIF2
structural_interaction_variant	MTIF2
structural_interaction_variant	MTIF2
structural_interaction_variant	MTIF2
structural_interaction_variant	CCDC88A
structural_interaction_variant	CCDC88A
structural_interaction_variant	CCDC88A
structural_interaction_variant	CCDC88A
structural_interaction_variant	CCDC88A
structural_interaction_variant	CCDC104
frameshift_variant	CCDC104
structural_interaction_variant	CCDC104
structural_interaction_variant	SMEK2
structural_interaction_variant	SMEK2
stop_gained	PNPT1
structural_interaction_variant	PNPT1
structural_interaction_variant	EFEMP1
structural_interaction_variant	EFEMP1
structural_interaction_variant	EFEMP1
structural_interaction_variant	CCDC85A
structural_interaction_variant	CCDC85A
stop_gained	CCDC85A
structural_interaction_variant	CCDC85A
structural_interaction_variant	VRK2
structural_interaction_variant	VRK2
structural_interaction_variant	VRK2
stop_gained	VRK2
stop_gained	VRK2
structural_interaction_variant	PAPOLG
structural_interaction_variant	PAPOLG
structural_interaction_variant	PAPOLG
structural_interaction_variant	REL
missense_variant&splice_region_variant	REL
structural_interaction_variant	REL
structural_interaction_variant	REL
frameshift_variant	PUS10
structural_interaction_variant	PUS10

structural_interaction_variant	PUS10
structural_interaction_variant	PUS10
stop_gained	PUS10
structural_interaction_variant	KIAA1841
structural_interaction_variant	KIAA1841
frameshift_variant	KIAA1841
structural_interaction_variant	USP34
structural_interaction_variant	USP34
structural_interaction_variant	USP34
structural_interaction_variant	USP34
structural_interaction_variant	USP34
structural_interaction_variant	USP34
missense_variant&splice_region_variant	USP34
structural_interaction_variant	USP34
structural_interaction_variant	USP34
structural_interaction_variant	USP34
structural_interaction_variant	USP34
structural_interaction_variant	USP34
structural_interaction_variant	USP34
structural_interaction_variant	USP34
structural_interaction_variant	USP34
structural_interaction_variant	USP34
structural_interaction_variant	USP34
structural_interaction_variant	USP34
structural_interaction_variant	FAM161A
stop_gained	FAM161A
structural_interaction_variant	CCT4
structural_interaction_variant	CCT4
structural_interaction_variant	COMMD1
structural_interaction_variant	TMEM17
structural_interaction_variant	TMEM17
structural_interaction_variant	TMEM17
structural_interaction_variant	EHBP1
structural_interaction_variant	EHBP1
structural_interaction_variant	EHBP1
missense_variant&splice_region_variant	EHBP1
structural_interaction_variant	EHBP1
splice_acceptor_variant&intron_variant	EHBP1
structural_interaction_variant	OTX1
structural_interaction_variant	WDPCP
splice_acceptor_variant&intron_variant	UGP2
frameshift_variant	UGP2
splice_donor_variant&intron_variant	UGP2
structural_interaction_variant	UGP2
structural_interaction_variant	UGP2
structural_interaction_variant	VPS54
structural_interaction_variant	VPS54
structural_interaction_variant	AFTPH

structural_interaction_variant	AFTPH
structural_interaction_variant	AFTPH
structural_interaction_variant	AFTPH
structural_interaction_variant	AFTPH
structural_interaction_variant	AFTPH
structural_interaction_variant	AFTPH
structural_interaction_variant	CEP68
structural_interaction_variant	CEP68
structural_interaction_variant	SPRED2
structural_interaction_variant	MEIS1
conservative_inframe_deletion	ETAA1
structural_interaction_variant	ETAA1
structural_interaction_variant	ETAA1
structural_interaction_variant	ETAA1
structural_interaction_variant	WDR92
splice_donor_variant&intron_variant	RP11-474G23.1
structural_interaction_variant	PNO1
structural_interaction_variant	PNO1
structural_interaction_variant	PLEK
stop_gained	PLEK
stop_gained	PLEK
structural_interaction_variant	FBXO48
frameshift_variant	FBXO48
structural_interaction_variant	FBXO48
structural_interaction_variant	APLF
structural_interaction_variant	PROKR1
structural_interaction_variant	ARHGAP25
structural_interaction_variant	ARHGAP25
structural_interaction_variant	BMP10
structural_interaction_variant	BMP10
structural_interaction_variant	BMP10
structural_interaction_variant	BMP10
structural_interaction_variant	BMP10
stop_gained	GKN2
structural_interaction_variant	ANTXR1
structural_interaction_variant	AAK1
structural_interaction_variant	AAK1
structural_interaction_variant	AAK1
structural_interaction_variant	AAK1
structural_interaction_variant	ANXA4
structural_interaction_variant	ANXA4
stop_gained	ANXA4
structural_interaction_variant	ANXA4
structural_interaction_variant	GMCL1
structural_interaction_variant	GMCL1
structural_interaction_variant	GMCL1
missense_variant&splice_region_variant	SNRNP27
structural_interaction_variant	SNRNP27

structural_interaction_variant	SNRNP27
structural_interaction_variant	MXD1
structural_interaction_variant	MXD1
structural_interaction_variant	MXD1
structural_interaction_variant	MXD1
structural_interaction_variant	MXD1
structural_interaction_variant	PCBP1
structural_interaction_variant	C2orf42
structural_interaction_variant	C2orf42
structural_interaction_variant	TIA1
missense_variant&splice_region_variant	PCYOX1
structural_interaction_variant	PCYOX1
structural_interaction_variant	PCYOX1
structural_interaction_variant	PCYOX1
structural_interaction_variant	TGFA
structural_interaction_variant	ADD2
structural_interaction_variant	ADD2
structural_interaction_variant	FIGLA
structural_interaction_variant	CLEC4F
structural_interaction_variant	CLEC4F
structural_interaction_variant	CLEC4F
structural_interaction_variant	CLEC4F
structural_interaction_variant	CLEC4F
structural_interaction_variant	CD207
structural_interaction_variant	CD207
structural_interaction_variant	ATP6V1B1
structural_interaction_variant	ANKRD53
structural_interaction_variant	ANKRD53
structural_interaction_variant	NAGK
structural_interaction_variant	NAGK
structural_interaction_variant	NAGK
structural_interaction_variant	NAGK
structural_interaction_variant	NAGK
structural_interaction_variant	MPHOSPH10
structural_interaction_variant	PAIP2B
structural_interaction_variant	ZNF638
structural_interaction_variant	ZNF638
structural_interaction_variant	ZNF638
structural_interaction_variant	ZNF638
structural_interaction_variant	ZNF638
structural_interaction_variant	ZNF638
stop_gained	ZNF638
frameshift_variant	DYSF
structural_interaction_variant	DYSF
structural_interaction_variant	DYSF
stop_gained&splice_region_variant	DYSF
frameshift_variant	DYSF
structural_interaction_variant	CYP26B1

structural_interaction_variant	CYP26B1
structural_interaction_variant	CYP26B1
structural_interaction_variant	CYP26B1
structural_interaction_variant	EXOC6B
missense_variant&splice_region_variant	EXOC6B
structural_interaction_variant	EMX1
structural_interaction_variant	SFXN5
structural_interaction_variant	RAB11FIP5
structural_interaction_variant	RAB11FIP5
structural_interaction_variant	RAB11FIP5
structural_interaction_variant	RAB11FIP5
structural_interaction_variant	RAB11FIP5
structural_interaction_variant	NOTO
stop_gained	NOTO
frameshift_variant	SMYD5
structural_interaction_variant	SMYD5
structural_interaction_variant	SMYD5
structural_interaction_variant	PRADC1
structural_interaction_variant	CCT7
structural_interaction_variant	CCT7
structural_interaction_variant	CCT7
structural_interaction_variant	FBXO41
stop_gained	ALMS1
structural_interaction_variant	ALMS1
frameshift_variant	ALMS1
structural_interaction_variant	NAT8
structural_interaction_variant	NAT8
structural_interaction_variant	NAT8
splice_donor_variant&intron_variant	ALMS1P
structural_interaction_variant	DUSP11
structural_interaction_variant	C2orf78
structural_interaction_variant	C2orf78
structural_interaction_variant	C2orf78
structural_interaction_variant	C2orf78
structural_interaction_variant	STAMBP
structural_interaction_variant	STAMBP
structural_interaction_variant	STAMBP
structural_interaction_variant	TET3
structural_interaction_variant	TET3
structural_interaction_variant	TET3
structural_interaction_variant	TET3
structural_interaction_variant	TET3
structural_interaction_variant	TET3
structural_interaction_variant	TET3
structural_interaction_variant	TET3
structural_interaction_variant	TET3
structural_interaction_variant	TET3
frameshift_variant	MTHFD2

structural_interaction_variant	SLC4A5
structural_interaction_variant	SLC4A5
structural_interaction_variant	SLC4A5
structural_interaction_variant	SLC4A5
structural_interaction_variant	SLC4A5
structural_interaction_variant	SLC4A5
structural_interaction_variant	SLC4A5
structural_interaction_variant	SLC4A5
structural_interaction_variant	SLC4A5
structural_interaction_variant	DCTN1
structural_interaction_variant	DCTN1
frameshift_variant	C2orf81
structural_interaction_variant	C2orf81
structural_interaction_variant	WDR54
structural_interaction_variant	WDR54
stop_gained	RTKN
structural_interaction_variant	CCDC142
frameshift_variant	CCDC142
structural_interaction_variant	CCDC142
structural_interaction_variant	TTC31
structural_interaction_variant	TTC31
structural_interaction_variant	LBX2
structural_interaction_variant	DQX1
structural_interaction_variant	DQX1
stop_gained	DQX1
structural_interaction_variant	DQX1
frameshift_variant	DQX1
frameshift_variant	DQX1
structural_interaction_variant	DOK1
structural_interaction_variant	M1AP
structural_interaction_variant	M1AP
structural_interaction_variant	SEMA4F
structural_interaction_variant	SEMA4F
structural_interaction_variant	SEMA4F
structural_interaction_variant	SEMA4F
stop_gained	SEMA4F
structural_interaction_variant	SEMA4F
structural_interaction_variant	SEMA4F
structural_interaction_variant	SEMA4F
structural_interaction_variant	HK2
structural_interaction_variant	HK2
structural_interaction_variant	POLE4
structural_interaction_variant	POLE4
structural_interaction_variant	TACR1
structural_interaction_variant	EVA1A
structural_interaction_variant	MRPL19
splice_donor_variant&intron_variant	GCFC2
structural_interaction_variant	GCFC2

structural_interaction_variant	REG3G
structural_interaction_variant	REG3G
structural_interaction_variant	REG1B
structural_interaction_variant	REG1B
structural_interaction_variant	REG1A
structural_interaction_variant	DNAH6
structural_interaction_variant	DNAH6
structural_interaction_variant	DNAH6
structural_interaction_variant	DNAH6
structural_interaction_variant	DNAH6
structural_interaction_variant	DNAH6
structural_interaction_variant	DNAH6
structural_interaction_variant	DNAH6
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structural_interaction_variant	DNAH6
structural_interaction_variant	DNAH6
structural_interaction_variant	DNAH6
structural_interaction_variant	DNAH6
structural_interaction_variant	DNAH6
structural_interaction_variant	TRABD2A
structural_interaction_variant	TRABD2A
structural_interaction_variant	TMSB10
structural_interaction_variant	TGOLN2
structural_interaction_variant	TGOLN2
structural_interaction_variant	TGOLN2
structural_interaction_variant	RETSAT
structural_interaction_variant	ELMOD3
structural_interaction_variant	ELMOD3
frameshift_variant	CAPG
structural_interaction_variant	CAPG
structural_interaction_variant	CAPG
structural_interaction_variant	SH2D6
splice_acceptor_variant&intron_variant	MAT2A
splice_acceptor_variant&intron_variant	MAT2A
missense_variant&splice_region_variant	MAT2A
structural_interaction_variant	MAT2A
structural_interaction_variant	MAT2A
structural_interaction_variant	GGCX
stop_gained	RNF181
splice_acceptor_variant&intron_variant	RNF181
structural_interaction_variant	C2orf68
structural_interaction_variant	ATOH8
structural_interaction_variant	ATOH8
structural_interaction_variant	ATOH8
structural_interaction_variant	ATOH8
structural_interaction_variant	ST3GAL5
structural_interaction_variant	ST3GAL5
stop_gained	ST3GAL5

structural_interaction_variant	POLR1A
structural_interaction_variant	POLR1A
stop_gained	PTCD3
structural_interaction_variant	PTCD3
structural_interaction_variant	IMMT
structural_interaction_variant	MRPL35
structural_interaction_variant	KDM3A
structural_interaction_variant	RNF103-CHMP3
structural_interaction_variant	RMND5A
structural_interaction_variant	CD8A
structural_interaction_variant	SMYD1
structural_interaction_variant	SMYD1
splice_donor_variant&intron_variant	SMYD1
structural_interaction_variant	SMYD1
structural_interaction_variant	FABP1
structural_interaction_variant	THNSL2
structural_interaction_variant	THNSL2
structural_interaction_variant	THNSL2
structural_interaction_variant	THNSL2
frameshift_variant	THNSL2
structural_interaction_variant	TEX37
structural_interaction_variant	MAL
structural_interaction_variant	MAL
structural_interaction_variant	MAL
structural_interaction_variant	MRPS5
splice_donor_variant&intron_variant	ZNF514
structural_interaction_variant	ZNF2
frameshift_variant	PROM2
structural_interaction_variant	PROM2
structural_interaction_variant	PROM2
structural_interaction_variant	KCNIP3
structural_interaction_variant	ANKRD36C
structural_interaction_variant	ASTL
frameshift_variant	ASTL
structural_interaction_variant	ASTL
structural_interaction_variant	ASTL
structural_interaction_variant	STARD7
structural_interaction_variant	CIAO1
structural_interaction_variant	SNRNP200
structural_interaction_variant	ITPRIPL1
structural_interaction_variant	ITPRIPL1
structural_interaction_variant	ITPRIPL1
structural_interaction_variant	ITPRIPL1
structural_interaction_variant	ITPRIPL1
structural_interaction_variant	ITPRIPL1
stop_gained	ITPRIPL1
structural_interaction_variant	NCAPH
structural_interaction_variant	NCAPH

structural_interaction_variant	ARID5A
structural_interaction_variant	KANSL3
structural_interaction_variant	KANSL3
structural_interaction_variant	KANSL3
structural_interaction_variant	LMAN2L
structural_interaction_variant	LMAN2L
structural_interaction_variant	LMAN2L
structural_interaction_variant	CNNM3
structural_interaction_variant	CNNM3
structural_interaction_variant	ANKRD23
structural_interaction_variant	ANKRD23
stop_gained&splice_region_variant	FAM178B
structural_interaction_variant	COX5B
structural_interaction_variant	ACTR1B
structural_interaction_variant	ACTR1B
structural_interaction_variant	TMEM131
structural_interaction_variant	TMEM131
structural_interaction_variant	TMEM131
structural_interaction_variant	TMEM131
structural_interaction_variant	TMEM131
structural_interaction_variant	TMEM131
structural_interaction_variant	TMEM131
structural_interaction_variant	TMEM131
structural_interaction_variant	TMEM131
structural_interaction_variant	TMEM131
structural_interaction_variant	TMEM131
frameshift_variant&stop_gained	VWA3B
structural_interaction_variant	INPP4A
structural_interaction_variant	INPP4A
structural_interaction_variant	MGAT4A
structural_interaction_variant	MGAT4A
structural_interaction_variant	MGAT4A
structural_interaction_variant	MGAT4A
structural_interaction_variant	MGAT4A
structural_interaction_variant	KIAA1211L
stop_gained&splice_region_variant	KIAA1211L
structural_interaction_variant	KIAA1211L
missense_variant&splice_region_variant	TSGA10
structural_interaction_variant	TSGA10
structural_interaction_variant	TSGA10
structural_interaction_variant	C2ORF15
structural_interaction_variant	C2ORF15
disruptive_inframe_deletion	MRPL30
structural_interaction_variant	LYG2
structural_interaction_variant	LYG2
structural_interaction_variant	LYG2
structural_interaction_variant	LYG2
structural_interaction_variant	EIF5B

structural_interaction_variant	REV1
structural_interaction_variant	REV1
structural_interaction_variant	REV1
structural_interaction_variant	REV1
structural_interaction_variant	REV1
structural_interaction_variant	REV1
structural_interaction_variant	REV1
structural_interaction_variant	AFF3
structural_interaction_variant	AFF3
structural_interaction_variant	AFF3
structural_interaction_variant	AFF3
structural_interaction_variant	LONRF2
structural_interaction_variant	LONRF2
structural_interaction_variant	LONRF2
structural_interaction_variant	LONRF2
structural_interaction_variant	LONRF2
structural_interaction_variant	CHST10
missense_variant&splice_region_variant	NMS
splice_acceptor_variant&intron_variant	NMS
structural_interaction_variant	NPAS2
structural_interaction_variant	NPAS2
structural_interaction_variant	TBC1D8
structural_interaction_variant	CNOT11
structural_interaction_variant	RFX8
stop_gained	RFX8
structural_interaction_variant	RFX8
structural_interaction_variant	MAP4K4
structural_interaction_variant	MAP4K4
structural_interaction_variant	MAP4K4
structural_interaction_variant	IL1R2
stop_gained	IL1R2
structural_interaction_variant	IL1R2
structural_interaction_variant	IL1R1
structural_interaction_variant	IL1RL2
structural_interaction_variant	IL1RL2
structural_interaction_variant	IL1RL1
structural_interaction_variant	IL1RL1
structural_interaction_variant	IL1RL1
structural_interaction_variant	IL1RL1
structural_interaction_variant	IL1RL1
structural_interaction_variant	IL1RL1
frameshift_variant	IL1RL1
structural_interaction_variant	IL18R1
structural_interaction_variant	IL18R1
structural_interaction_variant	SLC9A4
structural_interaction_variant	SLC9A4
structural_interaction_variant	SLC9A4
structural_interaction_variant	SLC9A2

structural_interaction_variant	SLC9A2
splice_acceptor_variant&intron_variant	SLC9A2
structural_interaction_variant	SLC9A2
structural_interaction_variant	SLC9A2
structural_interaction_variant	SLC9A2
structural_interaction_variant	MFSD9
structural_interaction_variant	MFSD9
structural_interaction_variant	MFSD9
stop_gained	MRPS9
frameshift_variant	GPR45
structural_interaction_variant	TGFBRAP1
structural_interaction_variant	TGFBRAP1
structural_interaction_variant	TGFBRAP1
structural_interaction_variant	TGFBRAP1
structural_interaction_variant	C2orf49
structural_interaction_variant	C2orf49
structural_interaction_variant	C2orf49
stop_gained	FHL2
structural_interaction_variant	NCK2
structural_interaction_variant	NCK2
structural_interaction_variant	C2orf40
structural_interaction_variant	ST6GAL2
structural_interaction_variant	SLC5A7
stop_gained	SLC5A7
structural_interaction_variant	SULT1C3
structural_interaction_variant	SULT1C2
structural_interaction_variant	SULT1C4
splice_acceptor_variant&intron_variant	SULT1C4
structural_interaction_variant	SULT1C4
structural_interaction_variant	SULT1C4
stop_gained	GCC2
structural_interaction_variant	GCC2
stop_gained	GCC2
structural_interaction_variant	GCC2
structural_interaction_variant	RANBP2
structural_interaction_variant	RANBP2
structural_interaction_variant	RANBP2
structural_interaction_variant	RANBP2
structural_interaction_variant	RANBP2
frameshift_variant	CCDC138
structural_interaction_variant	CCDC138
structural_interaction_variant	CCDC138
structural_interaction_variant	CCDC138
structural_interaction_variant	SH3RF3
structural_interaction_variant	SH3RF3
structural_interaction_variant	SH3RF3
structural_interaction_variant	SH3RF3
structural_interaction_variant	SH3RF3

structural_interaction_variant	SH3RF3
structural_interaction_variant	SH3RF3
structural_interaction_variant	SH3RF3
structural_interaction_variant	SEPT10
structural_interaction_variant	SEPT10
structural_interaction_variant	SEPT10
structural_interaction_variant	SEPT10
structural_interaction_variant	SOWAHC
structural_interaction_variant	NPHP1
structural_interaction_variant	ACOXL
structural_interaction_variant	ACOXL
structural_interaction_variant	BCL2L11
structural_interaction_variant	BCL2L11
structural_interaction_variant	BCL2L11
stop_gained	MERTK
structural_interaction_variant	MERTK
splice_donor_variant&intron_variant	TMEM87B
structural_interaction_variant	FBLN7
structural_interaction_variant	FBLN7
structural_interaction_variant	FBLN7
structural_interaction_variant	ZC3H8
structural_interaction_variant	ZC3H8
structural_interaction_variant	ZC3H6
structural_interaction_variant	ZC3H6
structural_interaction_variant	ZC3H6
structural_interaction_variant	ZC3H6
structural_interaction_variant	ZC3H6
structural_interaction_variant	ZC3H6
structural_interaction_variant	ZC3H6
structural_interaction_variant	TTL
structural_interaction_variant	POLR1B
structural_interaction_variant	SLC20A1
stop_gained	CKAP2L
structural_interaction_variant	CKAP2L
structural_interaction_variant	IL36G
structural_interaction_variant	IL36B
structural_interaction_variant	IL1F10
structural_interaction_variant	IL1F10
missense_variant&splice_region_variant	IL1RN
structural_interaction_variant	PSD4
structural_interaction_variant	PSD4
splice_donor_variant&intron_variant	PSD4
structural_interaction_variant	PAX8
splice_donor_variant&intron_variant	RABL2A
frameshift_variant	SLC35F5
frameshift_variant&splice_region_variant	SLC35F5
structural_interaction_variant	SLC35F5
structural_interaction_variant	SLC35F5

structural_interaction_variant	SLC35F5
structural_interaction_variant	SLC35F5
structural_interaction_variant	DPP10
structural_interaction_variant	DPP10
structural_interaction_variant	DPP10
structural_interaction_variant	DDX18
structural_interaction_variant	CCDC93
structural_interaction_variant	CCDC93
structural_interaction_variant	CCDC93
missense_variant&splice_region_variant	CCDC93
structural_interaction_variant	CCDC93
structural_interaction_variant	INSIG2
structural_interaction_variant	STEAP3
structural_interaction_variant	SCTR
structural_interaction_variant	PCDP1
structural_interaction_variant	PCDP1
structural_interaction_variant	TMEM177
structural_interaction_variant	TMEM177
structural_interaction_variant	TMEM177
structural_interaction_variant	PTPN4
structural_interaction_variant	PTPN4
structural_interaction_variant	PTPN4
structural_interaction_variant	EPB41L5
structural_interaction_variant	EPB41L5
structural_interaction_variant	EPB41L5
structural_interaction_variant	EPB41L5
structural_interaction_variant	RALB
stop_gained	RALB
structural_interaction_variant	GLI2
structural_interaction_variant	GLI2
splice_donor_variant&intron_variant	TFCP2L1
structural_interaction_variant	TFCP2L1
structural_interaction_variant	CLASP1
structural_interaction_variant	CLASP1
structural_interaction_variant	CLASP1
stop_gained	NIFK
structural_interaction_variant	TSN
structural_interaction_variant	CNTNAP5
structural_interaction_variant	CNTNAP5
structural_interaction_variant	CNTNAP5
structural_interaction_variant	CNTNAP5
structural_interaction_variant	BIN1
structural_interaction_variant	CYP27C1
structural_interaction_variant	CYP27C1
structural_interaction_variant	CYP27C1
structural_interaction_variant	CYP27C1
structural_interaction_variant	CYP27C1
structural_interaction_variant	CYP27C1

structural_interaction_variant	ERCC3
stop_gained	ERCC3
structural_interaction_variant	MAP3K2
structural_interaction_variant	MAP3K2
structural_interaction_variant	MAP3K2
structural_interaction_variant	IWS1
structural_interaction_variant	IWS1
structural_interaction_variant	IWS1
missense_variant&splice_region_variant	IWS1
stop_gained	MYO7B
structural_interaction_variant	MYO7B
structural_interaction_variant	MYO7B
structural_interaction_variant	MYO7B
structural_interaction_variant	MYO7B
structural_interaction_variant	MYO7B
structural_interaction_variant	GPR17
structural_interaction_variant	WDR33
structural_interaction_variant	WDR33
structural_interaction_variant	WDR33
missense_variant&splice_region_variant	WDR33
structural_interaction_variant	AMMECR1L
structural_interaction_variant	SAP130
structural_interaction_variant	SAP130
structural_interaction_variant	SAP130
structural_interaction_variant	SAP130
structural_interaction_variant	UGGT1
structural_interaction_variant	UGGT1
structural_interaction_variant	UGGT1
structural_interaction_variant	UGGT1
structural_interaction_variant	UGGT1
structural_interaction_variant	UGGT1
structural_interaction_variant	UGGT1
structural_interaction_variant	UGGT1
structural_interaction_variant	UGGT1
structural_interaction_variant	UGGT1
structural_interaction_variant	UGGT1
structural_interaction_variant	UGGT1
structural_interaction_variant	UGGT1
structural_interaction_variant	UGGT1
structural_interaction_variant	SMPD4
stop_gained	SMPD4
structural_interaction_variant	MZT2B
structural_interaction_variant	TUBA3E
structural_interaction_variant	TUBA3E
missense_variant&splice_region_variant	IMP4
stop_gained	PTPN18
structural_interaction_variant	PTPN18
structural_interaction_variant	PTPN18

structural_interaction_variant	GPR148
structural_interaction_variant	AMER3
structural_interaction_variant	AMER3
structural_interaction_variant	AMER3
structural_interaction_variant	AMER3
structural_interaction_variant	AMER3
structural_interaction_variant	ARHGEF4
structural_interaction_variant	ARHGEF4
structural_interaction_variant	ARHGEF4
structural_interaction_variant	ARHGEF4
conservative_inframe_deletion&splice_region_varian	ARHGEF4
structural_interaction_variant	FAM168B
splice_acceptor_variant&intron_variant	FAM168B
splice_acceptor_variant&intron_variant	FAM168B
missense_variant&splice_region_variant	PLEKHB2
structural_interaction_variant	MZT2A
structural_interaction_variant	MZT2A
structural_interaction_variant	GPR39
structural_interaction_variant	GPR39
structural_interaction_variant	LYPD1
structural_interaction_variant	NCKAP5
structural_interaction_variant	NCKAP5
structural_interaction_variant	NCKAP5
structural_interaction_variant	NCKAP5
structural_interaction_variant	NCKAP5
structural_interaction_variant	NCKAP5
structural_interaction_variant	NCKAP5
frameshift_variant	NCKAP5
structural_interaction_variant	NCKAP5
structural_interaction_variant	TMEM163
structural_interaction_variant	ACMSD
structural_interaction_variant	ACMSD
structural_interaction_variant	ACMSD
structural_interaction_variant	MAP3K19
structural_interaction_variant	MAP3K19
stop_gained	RAB3GAP1
structural_interaction_variant	RAB3GAP1
stop_gained	ZRANB3
stop_gained	ZRANB3
structural_interaction_variant	R3HDM1
structural_interaction_variant	R3HDM1
structural_interaction_variant	R3HDM1
structural_interaction_variant	R3HDM1
structural_interaction_variant	R3HDM1
stop_gained	UBXN4
structural_interaction_variant	MCM6
structural_interaction_variant	MCM6
structural_interaction_variant	MCM6

structural_interaction_variant	MCM6
structural_interaction_variant	MCM6
structural_interaction_variant	DARS
structural_interaction_variant	DARS
frameshift_variant	DARS
structural_interaction_variant	DARS
structural_interaction_variant	THSD7B
structural_interaction_variant	THSD7B
structural_interaction_variant	THSD7B
structural_interaction_variant	THSD7B
structural_interaction_variant	THSD7B
structural_interaction_variant	THSD7B
structural_interaction_variant	THSD7B
structural_interaction_variant	THSD7B
structural_interaction_variant	THSD7B
structural_interaction_variant	THSD7B
disruptive_inframe_deletion&splice_region_variant	THSD7B
structural_interaction_variant	THSD7B
structural_interaction_variant	THSD7B
structural_interaction_variant	THSD7B
structural_interaction_variant	THSD7B
structural_interaction_variant	NXPH2
structural_interaction_variant	LRP1B
structural_interaction_variant	LRP1B
structural_interaction_variant	LRP1B
structural_interaction_variant	LRP1B
structural_interaction_variant	LRP1B
structural_interaction_variant	LRP1B
structural_interaction_variant	LRP1B
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structural_interaction_variant	LRP1B
structural_interaction_variant	LRP1B
structural_interaction_variant	LRP1B
structural_interaction_variant	LRP1B
structural_interaction_variant	ARHGAP15
structural_interaction_variant	ARHGAP15
structural_interaction_variant	ARHGAP15
frameshift_variant	ARHGAP15
structural_interaction_variant	ARHGAP15
structural_interaction_variant	ARHGAP15
structural_interaction_variant	ARHGAP15
structural_interaction_variant	ORC4
frameshift_variant	ORC4
structural_interaction_variant	EPC2

structural_interaction_variant	LYPD6
structural_interaction_variant	LYPD6
structural_interaction_variant	RND3
structural_interaction_variant	RBM43
structural_interaction_variant	NMI
structural_interaction_variant	NMI
structural_interaction_variant	TNFAIP6
splice_acceptor_variant&intron_variant	TNFAIP6
structural_interaction_variant	TNFAIP6
structural_interaction_variant	NEB
structural_interaction_variant	NEB
frameshift_variant	NEB
structural_interaction_variant	CACNB4
structural_interaction_variant	CACNB4
structural_interaction_variant	FMNL2
structural_interaction_variant	FMNL2
structural_interaction_variant	ARL6IP6
structural_interaction_variant	ARL6IP6
stop_gained	GALNT13
start_lost	AC011308.1
missense_variant&splice_region_variant	GPD2
structural_interaction_variant	GPD2
structural_interaction_variant	GALNT5
structural_interaction_variant	GALNT5
structural_interaction_variant	GALNT5
stop_lost	ERMN
structural_interaction_variant	ERMN
structural_interaction_variant	ACVR1C
structural_interaction_variant	ACVR1C
structural_interaction_variant	ACVR1C
splice_acceptor_variant&intron_variant	UPP2
structural_interaction_variant	CCDC148
frameshift_variant	CCDC148
structural_interaction_variant	CCDC148
stop_gained	CCDC148
structural_interaction_variant	CCDC148
structural_interaction_variant	CCDC148
structural_interaction_variant	PKP4
structural_interaction_variant	PKP4
structural_interaction_variant	PKP4
structural_interaction_variant	PKP4
structural_interaction_variant	PKP4
missense_variant&splice_region_variant	DAPL1
structural_interaction_variant	DAPL1
structural_interaction_variant	TANC1
structural_interaction_variant	TANC1
structural_interaction_variant	TANC1
structural_interaction_variant	TANC1

structural_interaction_variant	TANC1
structural_interaction_variant	TANC1
structural_interaction_variant	TANC1
structural_interaction_variant	TANC1
structural_interaction_variant	WDSUB1
structural_interaction_variant	WDSUB1
structural_interaction_variant	BAZ2B
missense_variant&splice_region_variant	BAZ2B
structural_interaction_variant	BAZ2B
structural_interaction_variant	BAZ2B
structural_interaction_variant	BAZ2B
structural_interaction_variant	MARCH7
structural_interaction_variant	MARCH7
structural_interaction_variant	LY75-CD302
structural_interaction_variant	LY75-CD302
structural_interaction_variant	LY75-CD302
missense_variant&splice_region_variant	LY75-CD302
structural_interaction_variant	LY75-CD302
structural_interaction_variant	LY75-CD302
structural_interaction_variant	LY75-CD302
structural_interaction_variant	LY75-CD302
structural_interaction_variant	LY75-CD302
structural_interaction_variant	LY75-CD302
stop_gained	LY75-CD302
structural_interaction_variant	LY75-CD302
structural_interaction_variant	LY75-CD302
structural_interaction_variant	LY75-CD302
structural_interaction_variant	LY75-CD302
structural_interaction_variant	LY75-CD302
structural_interaction_variant	LY75-CD302
structural_interaction_variant	LY75-CD302
structural_interaction_variant	PLA2R1
structural_interaction_variant	PLA2R1
structural_interaction_variant	PLA2R1
structural_interaction_variant	PLA2R1
structural_interaction_variant	PLA2R1
structural_interaction_variant	PLA2R1
structural_interaction_variant	PLA2R1
structural_interaction_variant	RBMS1
structural_interaction_variant	TBR1
structural_interaction_variant	SLC4A10
structural_interaction_variant	SLC4A10
structural_interaction_variant	DPP4
structural_interaction_variant	DPP4
stop_gained	DPP4
splice_acceptor_variant&intron_variant	DPP4
structural_interaction_variant	DPP4
structural_interaction_variant	DPP4

structural_interaction_variant	GCG
structural_interaction_variant	GCG
structural_interaction_variant	FAP
structural_interaction_variant	IFIH1
missense_variant&splice_region_variant	GCA
missense_variant&splice_region_variant	GCA
structural_interaction_variant	KCNH7
structural_interaction_variant	KCNH7
structural_interaction_variant	KCNH7
structural_interaction_variant	KCNH7
structural_interaction_variant	KCNH7
structural_interaction_variant	KCNH7
structural_interaction_variant	GRB14
structural_interaction_variant	GRB14
structural_interaction_variant	COBLL1
splice_acceptor_variant&intron_variant	COBLL1
structural_interaction_variant	COBLL1
structural_interaction_variant	COBLL1
structural_interaction_variant	COBLL1
structural_interaction_variant	COBLL1
structural_interaction_variant	COBLL1
structural_interaction_variant	SLC38A11
structural_interaction_variant	SCN2A
structural_interaction_variant	GALNT3
structural_interaction_variant	TTC21B
structural_interaction_variant	TTC21B
structural_interaction_variant	TTC21B
stop_gained	TTC21B
structural_interaction_variant	SCN1A
structural_interaction_variant	SCN9A
structural_interaction_variant	SCN9A
structural_interaction_variant	SCN7A
structural_interaction_variant	SCN7A
structural_interaction_variant	SCN7A
structural_interaction_variant	SCN7A
structural_interaction_variant	SCN7A
frameshift_variant	XIRP2
frameshift_variant	XIRP2
stop_gained	XIRP2
stop_gained	XIRP2
structural_interaction_variant	B3GALT1
structural_interaction_variant	B3GALT1
structural_interaction_variant	B3GALT1
structural_interaction_variant	STK39
structural_interaction_variant	CERS6
structural_interaction_variant	CERS6
structural_interaction_variant	NOSTRIN
structural_interaction_variant	NOSTRIN

structural_interaction_variant	NOSTRIN
structural_interaction_variant	NOSTRIN
structural_interaction_variant	SPC25
structural_interaction_variant	G6PC2
structural_interaction_variant	G6PC2
structural_interaction_variant	ABCB11
structural_interaction_variant	ABCB11
structural_interaction_variant	ABCB11
stop_gained	ABCB11
structural_interaction_variant	DHRS9
structural_interaction_variant	DHRS9
structural_interaction_variant	DHRS9
stop_gained	LRP2
structural_interaction_variant	BBS5
structural_interaction_variant	KLHL41
structural_interaction_variant	FASTKD1
structural_interaction_variant	FASTKD1
structural_interaction_variant	PPIG
missense_variant&splice_region_variant	CCDC173
structural_interaction_variant	CCDC173
structural_interaction_variant	CCDC173
structural_interaction_variant	CCDC173
structural_interaction_variant	CCDC173
structural_interaction_variant	CCDC173
structural_interaction_variant	CCDC173
structural_interaction_variant	KLHL23
structural_interaction_variant	SSB
disruptive_inframe_deletion	SSB
structural_interaction_variant	UBR3
structural_interaction_variant	UBR3
structural_interaction_variant	UBR3
structural_interaction_variant	UBR3
missense_variant&splice_region_variant	UBR3
missense_variant&splice_region_variant	MYO3B
structural_interaction_variant	MYO3B
stop_gained	MYO3B
structural_interaction_variant	MYO3B
structural_interaction_variant	MYO3B
splice_donor_variant&intron_variant	MYO3B
structural_interaction_variant	MYO3B
structural_interaction_variant	MYO3B
structural_interaction_variant	MYO3B
structural_interaction_variant	MYO3B
stop_gained	MYO3B
missense_variant&splice_region_variant	MYO3B
structural_interaction_variant	ERICH2
structural_interaction_variant	ERICH2
structural_interaction_variant	GAD1

structural_interaction_variant	GORASP2
structural_interaction_variant	GORASP2
stop_gained	GORASP2
structural_interaction_variant	METTL8
structural_interaction_variant	METTL8
structural_interaction_variant	CYBRD1
frameshift_variant	CYBRD1
structural_interaction_variant	DYNC1I2
structural_interaction_variant	HAT1
stop_gained	METAP1D
structural_interaction_variant	DLX1
missense_variant&splice_region_variant	DLX1
structural_interaction_variant	DLX2
structural_interaction_variant	PDK1
structural_interaction_variant	PDK1
structural_interaction_variant	PDK1
structural_interaction_variant	PDK1
structural_interaction_variant	PDK1
splice_donor_variant&intron_variant	PDK1
missense_variant&splice_region_variant	PDK1
structural_interaction_variant	PDK1
structural_interaction_variant	RAPGEF4
structural_interaction_variant	RAPGEF4
structural_interaction_variant	RAPGEF4
structural_interaction_variant	MLTK
structural_interaction_variant	MLTK
structural_interaction_variant	MLTK
structural_interaction_variant	MLTK
stop_gained	CDCA7
structural_interaction_variant	CIR1
structural_interaction_variant	SCRN3
structural_interaction_variant	SCRN3
stop_gained	SCRN3
structural_interaction_variant	ATP5G3
structural_interaction_variant	ATP5G3
structural_interaction_variant	KIAA1715
structural_interaction_variant	KIAA1715
structural_interaction_variant	HOXD13
frameshift_variant	HOXD12
structural_interaction_variant	HOXD12
structural_interaction_variant	HOXD10
structural_interaction_variant	HOXD10
disruptive_inframe_insertion	HOXD8
stop_gained	HOXD8
structural_interaction_variant	HOXD3
structural_interaction_variant	HOXD1
structural_interaction_variant	MTX2
structural_interaction_variant	TTC30B

structural_interaction_variant	TTC30B
structural_interaction_variant	TTC30B
structural_interaction_variant	TTC30A
structural_interaction_variant	TTC30A
frameshift_variant	PDE11A
frameshift_variant	PDE11A
structural_interaction_variant	RBM45
structural_interaction_variant	RBM45
structural_interaction_variant	OSBPL6
structural_interaction_variant	OSBPL6
structural_interaction_variant	PRKRA
structural_interaction_variant	DFNB59
frameshift_variant	TTN
frameshift_variant	TTN
stop_gained	TTN
stop_gained	TTN
structural_interaction_variant	CCDC141
structural_interaction_variant	CCDC141
structural_interaction_variant	CCDC141
stop_gained	CCDC141
structural_interaction_variant	CCDC141
structural_interaction_variant	SESTD1
structural_interaction_variant	ZNF385B
structural_interaction_variant	CWC22
structural_interaction_variant	CWC22
structural_interaction_variant	CWC22
structural_interaction_variant	CWC22
structural_interaction_variant	CWC22
structural_interaction_variant	CWC22
structural_interaction_variant	ITGA4
structural_interaction_variant	ITGA4
structural_interaction_variant	CERKL
structural_interaction_variant	SSFA2
structural_interaction_variant	SSFA2
structural_interaction_variant	SSFA2
structural_interaction_variant	SSFA2
structural_interaction_variant	SSFA2
structural_interaction_variant	SSFA2
structural_interaction_variant	SSFA2
structural_interaction_variant	SSFA2
missense_variant&splice_region_variant	SSFA2
structural_interaction_variant	SSFA2
stop_gained	DNAJC10
structural_interaction_variant	DNAJC10
structural_interaction_variant	DNAJC10
missense_variant&splice_region_variant	DNAJC10
structural_interaction_variant	DNAJC10
structural_interaction_variant	DNAJC10

structural_interaction_variant	NCKAP1
missense_variant&splice_region_variant	NUP35
stop_gained	NUP35
frameshift_variant	NUP35
structural_interaction_variant	ZNF804A
structural_interaction_variant	ZNF804A
structural_interaction_variant	ZNF804A
structural_interaction_variant	ZNF804A
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structural_interaction_variant	ZNF804A
structural_interaction_variant	ZNF804A
structural_interaction_variant	ZNF804A
structural_interaction_variant	ZNF804A
stop_gained	FSIP2
frameshift_variant	FSIP2
structural_interaction_variant	AC018867.2
structural_interaction_variant	ITGAV
structural_interaction_variant	ITGAV
missense_variant&splice_region_variant	FAM171B
structural_interaction_variant	FAM171B
structural_interaction_variant	FAM171B
structural_interaction_variant	ZSWIM2
structural_interaction_variant	CALCRL
structural_interaction_variant	CALCRL
structural_interaction_variant	CALCRL
missense_variant&splice_region_variant	TFPI
structural_interaction_variant	GULP1
structural_interaction_variant	COL5A2
structural_interaction_variant	COL5A2
structural_interaction_variant	COL5A2
structural_interaction_variant	WDR75
structural_interaction_variant	WDR75
missense_variant&splice_region_variant	WDR75
structural_interaction_variant	WDR75
structural_interaction_variant	ASNSD1
structural_interaction_variant	ASNSD1
structural_interaction_variant	ASNSD1
splice_donor_variant&intron_variant	ASNSD1
splice_acceptor_variant&intron_variant	ASNSD1
structural_interaction_variant	ANKAR
frameshift_variant	ANKAR
structural_interaction_variant	ANKAR
frameshift_variant	ANKAR
structural_interaction_variant	OSGEPL1
structural_interaction_variant	OSGEPL1
structural_interaction_variant	OSGEPL1
stop_gained&splice_region_variant	PMS1

structural_interaction_variant	PMS1
frameshift_variant&stop_gained	PMS1
structural_interaction_variant	MSTN
structural_interaction_variant	MSTN
structural_interaction_variant	INPP1
structural_interaction_variant	INPP1
structural_interaction_variant	INPP1
structural_interaction_variant	INPP1
structural_interaction_variant	MFSD6
structural_interaction_variant	MFSD6
structural_interaction_variant	MFSD6
frameshift_variant	MFSD6
stop_gained	TMEM194B
structural_interaction_variant	TMEM194B
structural_interaction_variant	NAB1
structural_interaction_variant	GLS
structural_interaction_variant	STAT1
structural_interaction_variant	STAT1
structural_interaction_variant	STAT1
structural_interaction_variant	STAT1
frameshift_variant	STAT1
structural_interaction_variant	STAT1
structural_interaction_variant	STAT1
structural_interaction_variant	STAT1
structural_interaction_variant	STAT1
structural_interaction_variant	STAT1
structural_interaction_variant	STAT1
structural_interaction_variant	STAT1
structural_interaction_variant	STAT1
splice_donor_variant&intron_variant	STAT1
structural_interaction_variant	STAT1
structural_interaction_variant	STAT1
structural_interaction_variant	STAT1
structural_interaction_variant	STAT1
structural_interaction_variant	STAT4
structural_interaction_variant	STAT4
frameshift_variant	MYO1B
structural_interaction_variant	MYO1B
structural_interaction_variant	MYO1B
structural_interaction_variant	MYO1B
structural_interaction_variant	MYO1B
structural_interaction_variant	MYO1B
structural_interaction_variant	MYO1B
structural_interaction_variant	MYO1B
structural_interaction_variant	NABP1
structural_interaction_variant	SDPR
structural_interaction_variant	SDPR
structural_interaction_variant	SDPR

structural_interaction_variant	SDPR
structural_interaction_variant	TMEFF2
structural_interaction_variant	TMEFF2
structural_interaction_variant	TMEFF2
structural_interaction_variant	SLC39A10
structural_interaction_variant	SLC39A10
structural_interaction_variant	SLC39A10
structural_interaction_variant	SLC39A10
structural_interaction_variant	DNAH7
structural_interaction_variant	DNAH7
structural_interaction_variant	DNAH7
structural_interaction_variant	DNAH7
frameshift_variant	DNAH7
structural_interaction_variant	DNAH7
structural_interaction_variant	DNAH7
structural_interaction_variant	DNAH7
structural_interaction_variant	DNAH7
structural_interaction_variant	DNAH7
structural_interaction_variant	DNAH7
structural_interaction_variant	DNAH7
structural_interaction_variant	DNAH7
structural_interaction_variant	DNAH7
stop_gained	DNAH7
structural_interaction_variant	DNAH7
structural_interaction_variant	DNAH7
structural_interaction_variant	DNAH7
structural_interaction_variant	DNAH7
structural_interaction_variant	DNAH7
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structural_interaction_variant	DNAH7
structural_interaction_variant	DNAH7
structural_interaction_variant	DNAH7
structural_interaction_variant	DNAH7
structural_interaction_variant	DNAH7
frameshift_variant	DNAH7
structural_interaction_variant	DNAH7
structural_interaction_variant	DNAH7
structural_interaction_variant	DNAH7
stop_gained	DNAH7
structural_interaction_variant	DNAH7
structural_interaction_variant	DNAH7
structural_interaction_variant	DNAH7
missense_variant&splice_region_variant	DNAH7
structural_interaction_variant	HECW2
structural_interaction_variant	HECW2
structural_interaction_variant	CCDC150

structural_interaction_variant	CCDC150
splice_donor_variant&intron_variant	CCDC150
structural_interaction_variant	CCDC150
structural_interaction_variant	CCDC150
missense_variant&splice_region_variant	CCDC150
structural_interaction_variant	GTF3C3
splice_donor_variant&intron_variant	C2orf66
stop_gained	PGAP1
structural_interaction_variant	ANKRD44
structural_interaction_variant	ANKRD44
structural_interaction_variant	SF3B1
structural_interaction_variant	HSPD1
structural_interaction_variant	MOB4
structural_interaction_variant	RFTN2
structural_interaction_variant	RFTN2
structural_interaction_variant	MARS2
structural_interaction_variant	MARS2
structural_interaction_variant	MARS2
structural_interaction_variant	MARS2
structural_interaction_variant	MARS2
structural_interaction_variant	BOLL
structural_interaction_variant	BOLL
structural_interaction_variant	PLCL1
structural_interaction_variant	PLCL1
structural_interaction_variant	PLCL1
structural_interaction_variant	TYW5
structural_interaction_variant	C2orf47
structural_interaction_variant	C2orf47
structural_interaction_variant	C2orf47
structural_interaction_variant	SPATS2L
structural_interaction_variant	KCTD18
stop_gained	SGOL2
splice_donor_variant&splice_region_variant&intron_	SGOL2
structural_interaction_variant	SGOL2
structural_interaction_variant	SGOL2
structural_interaction_variant	SGOL2
frameshift_variant	SGOL2
structural_interaction_variant	SGOL2
frameshift_variant	AOX1
stop_gained	AOX1
structural_interaction_variant	AOX1
structural_interaction_variant	AOX1
structural_interaction_variant	AOX1
structural_interaction_variant	AOX1
structural_interaction_variant	AOX1
structural_interaction_variant	AOX1
missense_variant&splice_region_variant	AOX1
structural_interaction_variant	BZW1

structural_interaction_variant	CLK1
structural_interaction_variant	CLK1
structural_interaction_variant	CLK1
structural_interaction_variant	PPIL3
structural_interaction_variant	PPIL3
structural_interaction_variant	ORC2
structural_interaction_variant	ORC2
structural_interaction_variant	ORC2
structural_interaction_variant	CFLAR
structural_interaction_variant	CASP10
structural_interaction_variant	CASP10
structural_interaction_variant	CASP10
structural_interaction_variant	CASP10
structural_interaction_variant	CASP10
frameshift_variant	ALS2CR12
structural_interaction_variant	ALS2CR12
stop_gained	ALS2CR12
structural_interaction_variant	TRAK2
structural_interaction_variant	TRAK2
start_lost	TRAK2
frameshift_variant	STRADB
structural_interaction_variant	ALS2CR11
structural_interaction_variant	ALS2CR11
structural_interaction_variant	ALS2CR11
structural_interaction_variant	ALS2CR11
structural_interaction_variant	ALS2
structural_interaction_variant	CDK15
splice_acceptor_variant&intron_variant	CDK15
structural_interaction_variant	CDK15
structural_interaction_variant	CDK15
frameshift_variant	CDK15
structural_interaction_variant	FZD7
structural_interaction_variant	FZD7
structural_interaction_variant	FZD7
structural_interaction_variant	FZD7
structural_interaction_variant	AC079354.1
structural_interaction_variant	AC079354.1
structural_interaction_variant	AC079354.1
structural_interaction_variant	NOP58
structural_interaction_variant	NOP58
structural_interaction_variant	NOP58
structural_interaction_variant	BMPR2
structural_interaction_variant	FAM117B
stop_gained	FAM117B
structural_interaction_variant	ICA1L
structural_interaction_variant	ICA1L
structural_interaction_variant	CARF
structural_interaction_variant	NBEAL1

stop_gained	NBEAL1
structural_interaction_variant	NBEAL1
structural_interaction_variant	NBEAL1
structural_interaction_variant	NBEAL1
structural_interaction_variant	NBEAL1
structural_interaction_variant	NBEAL1
structural_interaction_variant	NBEAL1
missense_variant&splice_region_variant	NBEAL1
stop_gained	NBEAL1
splice_donor_variant&intron_variant	NBEAL1
structural_interaction_variant	NBEAL1
structural_interaction_variant	CYP20A1
structural_interaction_variant	CYP20A1
structural_interaction_variant	ABI2
frameshift_variant	RAPH1
structural_interaction_variant	RAPH1
structural_interaction_variant	RAPH1
structural_interaction_variant	RAPH1
structural_interaction_variant	RAPH1
structural_interaction_variant	CD28
structural_interaction_variant	CTLA4
structural_interaction_variant	CTLA4
structural_interaction_variant	CTLA4
structural_interaction_variant	ICOS
structural_interaction_variant	PARD3B
structural_interaction_variant	PARD3B
structural_interaction_variant	PARD3B
structural_interaction_variant	PARD3B
structural_interaction_variant	PARD3B
structural_interaction_variant	NRP2
structural_interaction_variant	NRP2
structural_interaction_variant	NRP2
structural_interaction_variant	NRP2
structural_interaction_variant	INO80D
structural_interaction_variant	INO80D
structural_interaction_variant	INO80D
missense_variant&splice_region_variant	NDUFS1
structural_interaction_variant	GPR1
structural_interaction_variant	ZDBF2
structural_interaction_variant	ZDBF2
structural_interaction_variant	ZDBF2
structural_interaction_variant	ZDBF2
structural_interaction_variant	ZDBF2
structural_interaction_variant	ZDBF2
frameshift_variant	ZDBF2
structural_interaction_variant	ZDBF2
structural_interaction_variant	ZDBF2
stop_gained	ZDBF2

structural_interaction_variant	ZDBF2
structural_interaction_variant	ZDBF2
structural_interaction_variant	ADAM23
structural_interaction_variant	ADAM23
structural_interaction_variant	ADAM23
frameshift_variant	DYTN
frameshift_variant	DYTN
structural_interaction_variant	DYTN
structural_interaction_variant	DYTN
structural_interaction_variant	DYTN
structural_interaction_variant	MDH1B
frameshift_variant	FASTKD2
structural_interaction_variant	FASTKD2
structural_interaction_variant	CPO
structural_interaction_variant	CPO
structural_interaction_variant	CPO
structural_interaction_variant	CPO
structural_interaction_variant	CPO
structural_interaction_variant	CPO
structural_interaction_variant	CPO
frameshift_variant	KLF7
structural_interaction_variant	CREB1
structural_interaction_variant	METTL21A
structural_interaction_variant	METTL21A
structural_interaction_variant	PLEKHM3
structural_interaction_variant	CRYGC
structural_interaction_variant	CRYGC
structural_interaction_variant	CRYGB
structural_interaction_variant	CRYGB
structural_interaction_variant	CRYGA
structural_interaction_variant	CRYGA
structural_interaction_variant	CRYGA
structural_interaction_variant	C2orf80
missense_variant&splice_region_variant	C2orf80
structural_interaction_variant	C2orf80
splice_donor_variant&intron_variant	PTH2R
structural_interaction_variant	PTH2R
structural_interaction_variant	PTH2R
splice_donor_variant&intron_variant	PTH2R
structural_interaction_variant	MAP2
structural_interaction_variant	MAP2
structural_interaction_variant	MAP2
structural_interaction_variant	MAP2
structural_interaction_variant	MAP2
structural_interaction_variant	MAP2
frameshift_variant	UNC80
structural_interaction_variant	UNC80
structural_interaction_variant	RPE

structural_interaction_variant	RPE
structural_interaction_variant	KANSL1L
structural_interaction_variant	KANSL1L
structural_interaction_variant	KANSL1L
structural_interaction_variant	ACADL
structural_interaction_variant	ACADL
structural_interaction_variant	ACADL
structural_interaction_variant	LANCL1
frameshift_variant	CPS1
structural_interaction_variant	CPS1
structural_interaction_variant	SPAG16
structural_interaction_variant	SPAG16
frameshift_variant	BARD1
stop_gained	BARD1
structural_interaction_variant	ABCA12
missense_variant&splice_region_variant	ABCA12
structural_interaction_variant	ABCA12
structural_interaction_variant	FN1
structural_interaction_variant	FN1
structural_interaction_variant	FN1
missense_variant&splice_region_variant	FN1
structural_interaction_variant	FN1
structural_interaction_variant	PECR
structural_interaction_variant	PECR
structural_interaction_variant	TMEM169
structural_interaction_variant	TMEM169
structural_interaction_variant	XRCC5
structural_interaction_variant	SMARCAL1
structural_interaction_variant	RPL37A
structural_interaction_variant	TNP1
structural_interaction_variant	TNS1
structural_interaction_variant	TNS1
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structural_interaction_variant	TNS1
structural_interaction_variant	TNS1
structural_interaction_variant	RUFY4
structural_interaction_variant	CXCR2
structural_interaction_variant	ARPC2
structural_interaction_variant	AAMP
structural_interaction_variant	AAMP
structural_interaction_variant	AAMP
structural_interaction_variant	AAMP
structural_interaction_variant	AAMP

structural_interaction_variant	TMBIM1
structural_interaction_variant	PNKD
frameshift_variant	C2orf62
structural_interaction_variant	SLC11A1
structural_interaction_variant	SLC11A1
frameshift_variant	SLC11A1
structural_interaction_variant	SLC11A1
splice_acceptor_variant&intron_variant	SLC11A1
structural_interaction_variant	VIL1
structural_interaction_variant	VIL1
structural_interaction_variant	VIL1
missense_variant&splice_region_variant	USP37
structural_interaction_variant	USP37
structural_interaction_variant	USP37
structural_interaction_variant	USP37
structural_interaction_variant	USP37
structural_interaction_variant	USP37
structural_interaction_variant	USP37
structural_interaction_variant	RQCD1
structural_interaction_variant	PLCD4
structural_interaction_variant	PLCD4
structural_interaction_variant	PLCD4
stop_gained	ZNF142
structural_interaction_variant	STK36
frameshift_variant	STK36
structural_interaction_variant	STK36
structural_interaction_variant	STK36
structural_interaction_variant	STK36
structural_interaction_variant	STK36
structural_interaction_variant	TTLL4
structural_interaction_variant	TTLL4
structural_interaction_variant	TTLL4
stop_gained	TTLL4
structural_interaction_variant	PRKAG3
structural_interaction_variant	PRKAG3
structural_interaction_variant	WNT6
structural_interaction_variant	CDK5R2
structural_interaction_variant	FEV
structural_interaction_variant	CRYBA2
structural_interaction_variant	CRYBA2
structural_interaction_variant	CCDC108
structural_interaction_variant	CCDC108
structural_interaction_variant	CCDC108
structural_interaction_variant	CCDC108
structural_interaction_variant	CCDC108
frameshift_variant	CCDC108
structural_interaction_variant	CNPPD1
structural_interaction_variant	CNPPD1

structural_interaction_variant	FAM134A
structural_interaction_variant	FAM134A
frameshift_variant	FAM134A
structural_interaction_variant	ZFAND2B
structural_interaction_variant	ZFAND2B
stop_gained	ABCB6
structural_interaction_variant	ABCB6
splice_donor_variant&intron_variant	ABCB6
conservative_inframe_deletion	ABCB6
structural_interaction_variant	ABCB6
structural_interaction_variant	ABCB6
structural_interaction_variant	ABCB6
structural_interaction_variant	ATG9A
missense_variant&splice_region_variant	ATG9A
structural_interaction_variant	ANKZF1
structural_interaction_variant	ANKZF1
splice_donor_variant&intron_variant	ANKZF1
structural_interaction_variant	GLB1L
structural_interaction_variant	GLB1L
structural_interaction_variant	GLB1L
structural_interaction_variant	GLB1L
structural_interaction_variant	STK16
stop_gained	TUBA4A
structural_interaction_variant	PTPRN
structural_interaction_variant	PTPRN
structural_interaction_variant	PTPRN
structural_interaction_variant	PTPRN
structural_interaction_variant	RESP18
structural_interaction_variant	RESP18
missense_variant&splice_region_variant	RESP18
structural_interaction_variant	DNPEP
structural_interaction_variant	DES
structural_interaction_variant	DES
structural_interaction_variant	SPEG
frameshift_variant	GMPPA
structural_interaction_variant	GMPPA
structural_interaction_variant	ASIC4
structural_interaction_variant	ASIC4
structural_interaction_variant	CHPF
structural_interaction_variant	CHPF
structural_interaction_variant	TMEM198
structural_interaction_variant	TMEM198
structural_interaction_variant	TMEM198
structural_interaction_variant	OBSL1
structural_interaction_variant	OBSL1
frameshift_variant	OBSL1
stop_gained	OBSL1
structural_interaction_variant	OBSL1

structural_interaction_variant	OBSL1
structural_interaction_variant	OBSL1
structural_interaction_variant	STK11IP
structural_interaction_variant	STK11IP
structural_interaction_variant	STK11IP
structural_interaction_variant	STK11IP
structural_interaction_variant	SLC4A3
structural_interaction_variant	SLC4A3
structural_interaction_variant	SLC4A3
structural_interaction_variant	SLC4A3
structural_interaction_variant	SLC4A3
structural_interaction_variant	SLC4A3
structural_interaction_variant	EPHA4
structural_interaction_variant	EPHA4
structural_interaction_variant	EPHA4
structural_interaction_variant	EPHA4
structural_interaction_variant	PAX3
structural_interaction_variant	FARSB
structural_interaction_variant	FARSB
structural_interaction_variant	MOGAT1
structural_interaction_variant	ACSL3
structural_interaction_variant	ACSL3
structural_interaction_variant	ACSL3
structural_interaction_variant	KCNE4
structural_interaction_variant	SCG2
structural_interaction_variant	SCG2
structural_interaction_variant	WDFY1
missense_variant&splice_region_variant	MRPL44
frameshift_variant	MRPL44
structural_interaction_variant	MRPL44
structural_interaction_variant	FAM124B
structural_interaction_variant	FAM124B
structural_interaction_variant	FAM124B
structural_interaction_variant	CUL3
structural_interaction_variant	CUL3
stop_gained	DOCK10
structural_interaction_variant	DOCK10
structural_interaction_variant	DOCK10
structural_interaction_variant	DOCK10
structural_interaction_variant	DOCK10
structural_interaction_variant	DOCK10
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structural_interaction_variant	DOCK10
structural_interaction_variant	DOCK10
stop_gained	DOCK10
structural_interaction_variant	DOCK10
structural_interaction_variant	DOCK10

structural_interaction_variant	DOCK10
structural_interaction_variant	NYAP2
structural_interaction_variant	NYAP2
structural_interaction_variant	NYAP2
structural_interaction_variant	NYAP2
structural_interaction_variant	IRS1
structural_interaction_variant	IRS1
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structural_interaction_variant	IRS1
structural_interaction_variant	IRS1
structural_interaction_variant	RHBDD1
frameshift_variant	COL4A4
structural_interaction_variant	COL4A3
structural_interaction_variant	COL4A3
frameshift_variant	COL4A3
structural_interaction_variant	TM4SF20
structural_interaction_variant	AGFG1
structural_interaction_variant	AGFG1
structural_interaction_variant	AGFG1
structural_interaction_variant	C2orf83
stop_gained	SLC19A3
structural_interaction_variant	CCL20
structural_interaction_variant	DAW1
structural_interaction_variant	SPHKAP
structural_interaction_variant	SPHKAP
stop_gained	SPHKAP
structural_interaction_variant	SPHKAP
structural_interaction_variant	SPHKAP
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structural_interaction_variant	SPHKAP
structural_interaction_variant	DNER
structural_interaction_variant	DNER
structural_interaction_variant	DNER
structural_interaction_variant	TRIP12

structural_interaction_variant	SLC16A14
structural_interaction_variant	SLC16A14
structural_interaction_variant	SLC16A14
structural_interaction_variant	SP140
structural_interaction_variant	SP140
structural_interaction_variant	SP140L
splice_donor_variant&intron_variant	SP100
missense_variant&splice_region_variant	SP100
structural_interaction_variant	CAB39
stop_gained	ITM2C
splice_donor_variant&intron_variant	ITM2C
splice_donor_variant&intron_variant	ITM2C
structural_interaction_variant	ITM2C
structural_interaction_variant	ITM2C
structural_interaction_variant	SPATA3
structural_interaction_variant	SPATA3
structural_interaction_variant	C2orf72
stop_gained	C2orf72
structural_interaction_variant	PSMD1
structural_interaction_variant	HTR2B
structural_interaction_variant	HTR2B
structural_interaction_variant	HTR2B
structural_interaction_variant	B3GNT7
structural_interaction_variant	B3GNT7
structural_interaction_variant	B3GNT7
structural_interaction_variant	NCL
disruptive_inframe_deletion	NCL
structural_interaction_variant	NCL
structural_interaction_variant	NMUR1
structural_interaction_variant	NMUR1
structural_interaction_variant	C2orf57
structural_interaction_variant	ALPP
stop_gained	ALPP
structural_interaction_variant	ALPP
structural_interaction_variant	ALPPL2
structural_interaction_variant	ALPI
splice_donor_variant&intron_variant	ALPI
structural_interaction_variant	ALPI
structural_interaction_variant	ECEL1
stop_gained	CHRNG
structural_interaction_variant	GIGYF2
structural_interaction_variant	GIGYF2
structural_interaction_variant	GIGYF2
structural_interaction_variant	GIGYF2
structural_interaction_variant	GIGYF2
structural_interaction_variant	NGEF
structural_interaction_variant	NEU2
structural_interaction_variant	INPP5D

structural_interaction_variant	INPP5D
structural_interaction_variant	ATG16L1
structural_interaction_variant	ATG16L1
structural_interaction_variant	SAG
structural_interaction_variant	DGKD
structural_interaction_variant	DGKD
structural_interaction_variant	DGKD
structural_interaction_variant	DGKD
structural_interaction_variant	USP40
structural_interaction_variant	USP40
structural_interaction_variant	USP40
frameshift_variant	USP40
structural_interaction_variant	USP40
structural_interaction_variant	USP40
splice_donor_variant&intron_variant	USP40
structural_interaction_variant	USP40
stop_gained	USP40
structural_interaction_variant	UGT1A8
structural_interaction_variant	UGT1A6
missense_variant&splice_region_variant	UGT1A1
structural_interaction_variant	UGT1A1
stop_gained	MROH2A
stop_gained	HJURP
structural_interaction_variant	HJURP
splice_donor_variant&intron_variant	TRPM8
splice_donor_variant&intron_variant	TRPM8
structural_interaction_variant	TRPM8
missense_variant&splice_region_variant	TRPM8
structural_interaction_variant	TRPM8
structural_interaction_variant	TRPM8
structural_interaction_variant	TRPM8
structural_interaction_variant	TRPM8
structural_interaction_variant	TRPM8
structural_interaction_variant	SPP2
structural_interaction_variant	SPP2
structural_interaction_variant	SPP2
structural_interaction_variant	SH3BP4
structural_interaction_variant	SH3BP4
structural_interaction_variant	SH3BP4
structural_interaction_variant	SH3BP4
structural_interaction_variant	AGAP1
structural_interaction_variant	AGAP1
structural_interaction_variant	AGAP1
structural_interaction_variant	AGAP1
structural_interaction_variant	AGAP1
structural_interaction_variant	ASB18
splice_donor_variant&intron_variant	ASB18
structural_interaction_variant	IQCA1

structural_interaction_variant	IQCA1
structural_interaction_variant	IQCA1
frameshift_variant	COL6A3
structural_interaction_variant	RAB17
structural_interaction_variant	RAB17
structural_interaction_variant	LRRFIP1
structural_interaction_variant	LRRFIP1
structural_interaction_variant	LRRFIP1
structural_interaction_variant	RBM44
structural_interaction_variant	RBM44
structural_interaction_variant	SCLY
structural_interaction_variant	SCLY
structural_interaction_variant	ESPNL
structural_interaction_variant	ILKAP
structural_interaction_variant	PER2
structural_interaction_variant	PER2
structural_interaction_variant	PER2
structural_interaction_variant	PER2
structural_interaction_variant	PER2
structural_interaction_variant	ASB1
structural_interaction_variant	HDAC4
structural_interaction_variant	HDAC4
structural_interaction_variant	HDAC4
structural_interaction_variant	NDUFA10
structural_interaction_variant	NDUFA10
structural_interaction_variant	NDUFA10
frameshift_variant	PRR21
structural_interaction_variant	OR6B3
structural_interaction_variant	OR6B3
structural_interaction_variant	MYEOV2
structural_interaction_variant	MYEOV2
structural_interaction_variant	GPC1
structural_interaction_variant	GPC1
structural_interaction_variant	ANKMY1
structural_interaction_variant	ANKMY1
frameshift_variant	ANKMY1
structural_interaction_variant	RNPEPL1
structural_interaction_variant	CAPN10
structural_interaction_variant	CAPN10
structural_interaction_variant	CAPN10
structural_interaction_variant	KIF1A
structural_interaction_variant	SNED1
stop_gained	SNED1
structural_interaction_variant	SNED1
structural_interaction_variant	MTERFD2
structural_interaction_variant	MTERFD2
structural_interaction_variant	PASK
structural_interaction_variant	PASK

structural_interaction_variant	PASK
structural_interaction_variant	PASK
splice_donor_variant&intron_variant	PASK
structural_interaction_variant	PASK
structural_interaction_variant	PPP1R7
structural_interaction_variant	ANO7
structural_interaction_variant	ANO7
structural_interaction_variant	ANO7
structural_interaction_variant	ANO7
structural_interaction_variant	HDLBP
structural_interaction_variant	HDLBP
structural_interaction_variant	HDLBP
structural_interaction_variant	HDLBP
structural_interaction_variant	FARP2
structural_interaction_variant	FARP2
missense_variant&splice_region_variant	FARP2
structural_interaction_variant	FARP2
structural_interaction_variant	FARP2
missense_variant&splice_region_variant	FARP2
structural_interaction_variant	FARP2
structural_interaction_variant	FARP2
structural_interaction_variant	FARP2
structural_interaction_variant	FARP2
structural_interaction_variant	STK25
structural_interaction_variant	STK25
structural_interaction_variant	BOK
structural_interaction_variant	THAP4
structural_interaction_variant	THAP4
structural_interaction_variant	THAP4
structural_interaction_variant	THAP4
structural_interaction_variant	DTYMK
structural_interaction_variant	DTYMK
structural_interaction_variant	ING5
structural_interaction_variant	D2HGDH
structural_interaction_variant	GAL3ST2
structural_interaction_variant	GAL3ST2
structural_interaction_variant	CXXC11
structural_interaction_variant	CXXC11
structural_interaction_variant	CHL1
structural_interaction_variant	CHL1
structural_interaction_variant	CHL1
structural_interaction_variant	CHL1
missense_variant&splice_region_variant	CHL1
structural_interaction_variant	CHL1
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structural_interaction_variant	CHL1

structural_interaction_variant	CHL1
structural_interaction_variant	CHL1
structural_interaction_variant	CHL1
structural_interaction_variant	CHL1
structural_interaction_variant	CNTN6
structural_interaction_variant	CNTN6
structural_interaction_variant	CNTN6
structural_interaction_variant	CNTN6
structural_interaction_variant	CNTN6
stop_gained	CNTN6
structural_interaction_variant	CNTN6
stop_gained	CNTN6
structural_interaction_variant	CNTN4
structural_interaction_variant	CNTN4
structural_interaction_variant	CNTN4
structural_interaction_variant	CNTN4
structural_interaction_variant	CNTN4
structural_interaction_variant	CNTN4
structural_interaction_variant	CNTN4
stop_gained	CNTN4
structural_interaction_variant	IL5RA
structural_interaction_variant	IL5RA
structural_interaction_variant	TRNT1
structural_interaction_variant	TRNT1
structural_interaction_variant	LRRN1
structural_interaction_variant	LRRN1
structural_interaction_variant	LRRN1
structural_interaction_variant	LRRN1
structural_interaction_variant	LRRN1
structural_interaction_variant	LRRN1
structural_interaction_variant	SETMAR
structural_interaction_variant	SUMF1
stop_gained	SUMF1
structural_interaction_variant	ITPR1
structural_interaction_variant	ITPR1
structural_interaction_variant	ITPR1
structural_interaction_variant	AC018816.3
structural_interaction_variant	BHLHE40
structural_interaction_variant	BHLHE40
structural_interaction_variant	ARL8B
structural_interaction_variant	ARL8B
structural_interaction_variant	EDEM1
structural_interaction_variant	EDEM1
stop_gained	LMCD1
structural_interaction_variant	LMCD1
structural_interaction_variant	SSUH2
structural_interaction_variant	RAD18
structural_interaction_variant	RAD18

structural_interaction_variant	RAD18
structural_interaction_variant	SRGAP3
structural_interaction_variant	SRGAP3
structural_interaction_variant	SRGAP3
structural_interaction_variant	THUMPD3
structural_interaction_variant	THUMPD3
splice_acceptor_variant&intron_variant	THUMPD3
splice_acceptor_variant&intron_variant	THUMPD3
structural_interaction_variant	LHFPL4
structural_interaction_variant	MTMR14
missense_variant&splice_region_variant	MTMR14
structural_interaction_variant	CPNE9
structural_interaction_variant	OGG1
missense_variant&splice_region_variant	CAMK1
structural_interaction_variant	TADA3
stop_gained	TTLL3
structural_interaction_variant	TTLL3
structural_interaction_variant	TTLL3
structural_interaction_variant	TTLL3
structural_interaction_variant	TTLL3
structural_interaction_variant	TTLL3
structural_interaction_variant	CIDEC
structural_interaction_variant	IL17RE
structural_interaction_variant	IL17RE
structural_interaction_variant	IL17RC
structural_interaction_variant	CRELD1
structural_interaction_variant	PRRT3
structural_interaction_variant	EMC3
missense_variant&splice_region_variant	BRK1
structural_interaction_variant	IRAK2
structural_interaction_variant	IRAK2
structural_interaction_variant	IRAK2
structural_interaction_variant	IRAK2
structural_interaction_variant	RP11-438J1.1
structural_interaction_variant	RP11-438J1.1
structural_interaction_variant	RP11-438J1.1
structural_interaction_variant	RP11-438J1.1
structural_interaction_variant	RP11-438J1.1
structural_interaction_variant	RP11-438J1.1
structural_interaction_variant	RP11-438J1.1
structural_interaction_variant	GHRL
structural_interaction_variant	GHRL
structural_interaction_variant	SLC6A11
structural_interaction_variant	SLC6A11
structural_interaction_variant	SLC6A11
structural_interaction_variant	SLC6A11
structural_interaction_variant	HRH1
structural_interaction_variant	HRH1

stop_gained	HRH1
structural_interaction_variant	HRH1
structural_interaction_variant	ATG7
structural_interaction_variant	ATG7
stop_gained	VGLL4
structural_interaction_variant	VGLL4
frameshift_variant&stop_lost	TAMM41
structural_interaction_variant	TAMM41
structural_interaction_variant	TAMM41
structural_interaction_variant	TAMM41
structural_interaction_variant	TIMP4
frameshift_variant	TIMP4
frameshift_variant	TIMP4
structural_interaction_variant	TSEN2
structural_interaction_variant	MKRN2
structural_interaction_variant	MKRN2
structural_interaction_variant	MKRN2
missense_variant&splice_region_variant	MKRN2
structural_interaction_variant	TMEM40
stop_gained	CAND2
structural_interaction_variant	CAND2
structural_interaction_variant	CAND2
structural_interaction_variant	CAND2
structural_interaction_variant	IQSEC1
structural_interaction_variant	IQSEC1
structural_interaction_variant	IQSEC1
splice_acceptor_variant&intron_variant	IQSEC1
structural_interaction_variant	IQSEC1
structural_interaction_variant	IQSEC1
structural_interaction_variant	NUP210
structural_interaction_variant	NUP210
structural_interaction_variant	NUP210
structural_interaction_variant	NUP210
structural_interaction_variant	NUP210
structural_interaction_variant	NUP210
structural_interaction_variant	NUP210
structural_interaction_variant	HDAC11
structural_interaction_variant	HDAC11
structural_interaction_variant	FBLN2
missense_variant&splice_region_variant	FBLN2
structural_interaction_variant	WNT7A
structural_interaction_variant	TMEM43
frameshift_variant	XPC
structural_interaction_variant	XPC
stop_gained	XPC
stop_gained	SLC6A6
structural_interaction_variant	SLC6A6
structural_interaction_variant	SLC6A6

structural_interaction_variant	SLC6A6
structural_interaction_variant	CCDC174
structural_interaction_variant	CCDC174
structural_interaction_variant	CCDC174
structural_interaction_variant	CCDC174
structural_interaction_variant	C3orf20
frameshift_variant	C3orf20
structural_interaction_variant	C3orf20
structural_interaction_variant	C3orf20
structural_interaction_variant	FGD5
structural_interaction_variant	FGD5
structural_interaction_variant	FGD5
splice_acceptor_variant&intron_variant	FGD5
structural_interaction_variant	FGD5
structural_interaction_variant	FGD5
structural_interaction_variant	FGD5
structural_interaction_variant	FGD5
structural_interaction_variant	NR2C2
stop_gained	ZFYVE20
structural_interaction_variant	ZFYVE20
structural_interaction_variant	CAPN7
structural_interaction_variant	CAPN7
structural_interaction_variant	CAPN7
structural_interaction_variant	CAPN7
structural_interaction_variant	CAPN7
structural_interaction_variant	SH3BP5
structural_interaction_variant	SH3BP5
structural_interaction_variant	SH3BP5
structural_interaction_variant	SH3BP5
structural_interaction_variant	METTL6
missense_variant&splice_region_variant	HACL1
structural_interaction_variant	HACL1
structural_interaction_variant	HACL1
stop_gained	HACL1
structural_interaction_variant	BTD
structural_interaction_variant	BTD
structural_interaction_variant	BTD
structural_interaction_variant	ANKRD28
structural_interaction_variant	ANKRD28
structural_interaction_variant	ANKRD28
structural_interaction_variant	GALNT15
structural_interaction_variant	GALNT15
structural_interaction_variant	GALNT15
structural_interaction_variant	GALNT15
structural_interaction_variant	OXNAD1
frameshift_variant	RFTN1
structural_interaction_variant	RFTN1
structural_interaction_variant	RFTN1

structural_interaction_variant	PLCL2
structural_interaction_variant	PLCL2
structural_interaction_variant	PLCL2
structural_interaction_variant	TBC1D5
structural_interaction_variant	TBC1D5
structural_interaction_variant	TBC1D5
structural_interaction_variant	SATB1
structural_interaction_variant	SATB1
stop_gained	KCNH8
structural_interaction_variant	KCNH8
structural_interaction_variant	KCNH8
structural_interaction_variant	KCNH8
structural_interaction_variant	KCNH8
structural_interaction_variant	KCNH8
structural_interaction_variant	KCNH8
structural_interaction_variant	EFHB
structural_interaction_variant	KAT2B
structural_interaction_variant	KAT2B
structural_interaction_variant	KAT2B
structural_interaction_variant	SGOL1
structural_interaction_variant	SGOL1
structural_interaction_variant	SGOL1
structural_interaction_variant	SGOL1
structural_interaction_variant	SGOL1
structural_interaction_variant	UBE2E2
structural_interaction_variant	NR1D2
structural_interaction_variant	NR1D2
structural_interaction_variant	TOP2B
structural_interaction_variant	TOP2B
structural_interaction_variant	NGLY1
structural_interaction_variant	NGLY1
structural_interaction_variant	NGLY1
structural_interaction_variant	OXSM
structural_interaction_variant	NEK10
structural_interaction_variant	NEK10
structural_interaction_variant	NEK10
structural_interaction_variant	NEK10
structural_interaction_variant	NEK10
structural_interaction_variant	NEK10
structural_interaction_variant	SLC4A7
structural_interaction_variant	SLC4A7
missense_variant&splice_region_variant	SLC4A7
structural_interaction_variant	SLC4A7
structural_interaction_variant	EOMES
structural_interaction_variant	CMC1
structural_interaction_variant	AZI2
structural_interaction_variant	ZCWPW2
structural_interaction_variant	ZCWPW2

structural_interaction_variant	ZCWPW2
structural_interaction_variant	RBMS3
splice_donor_variant&intron_variant	RBMS3
structural_interaction_variant	RBMS3
structural_interaction_variant	RBMS3
structural_interaction_variant	TGFBR2
structural_interaction_variant	OSBPL10
structural_interaction_variant	OSBPL10
structural_interaction_variant	OSBPL10
structural_interaction_variant	OSBPL10
structural_interaction_variant	OSBPL10
stop_gained	OSBPL10
structural_interaction_variant	GPD1L
structural_interaction_variant	GPD1L
structural_interaction_variant	GPD1L
structural_interaction_variant	DYNC1LI1
structural_interaction_variant	CNOT10
structural_interaction_variant	CNOT10
structural_interaction_variant	CNOT10
structural_interaction_variant	TRIM71
structural_interaction_variant	TRIM71
structural_interaction_variant	CCR4
stop_gained	SUSD5
structural_interaction_variant	SUSD5
structural_interaction_variant	SUSD5
structural_interaction_variant	SUSD5
structural_interaction_variant	SUSD5
structural_interaction_variant	SUSD5
structural_interaction_variant	UBP1
structural_interaction_variant	UBP1
structural_interaction_variant	UBP1
structural_interaction_variant	UBP1
structural_interaction_variant	PDCD6IP
structural_interaction_variant	PDCD6IP
structural_interaction_variant	PDCD6IP
structural_interaction_variant	PDCD6IP
structural_interaction_variant	ARPP21
structural_interaction_variant	ARPP21
structural_interaction_variant	ARPP21
structural_interaction_variant	ARPP21
structural_interaction_variant	ARPP21
structural_interaction_variant	ARPP21
structural_interaction_variant	ARPP21
structural_interaction_variant	ARPP21
structural_interaction_variant	STAC
structural_interaction_variant	STAC
structural_interaction_variant	DCLK3

structural_interaction_variant	DCLK3
stop_gained	DCLK3
structural_interaction_variant	DCLK3
structural_interaction_variant	DCLK3
structural_interaction_variant	DCLK3
structural_interaction_variant	TRANK1
structural_interaction_variant	TRANK1
structural_interaction_variant	TRANK1
structural_interaction_variant	TRANK1
structural_interaction_variant	TRANK1
structural_interaction_variant	TRANK1
structural_interaction_variant	TRANK1
structural_interaction_variant	TRANK1
structural_interaction_variant	TRANK1
stop_gained	TRANK1
structural_interaction_variant	TRANK1
structural_interaction_variant	TRANK1
structural_interaction_variant	TRANK1
structural_interaction_variant	TRANK1
structural_interaction_variant	TRANK1
structural_interaction_variant	MLH1
structural_interaction_variant	LRRFIP2
structural_interaction_variant	GOLGA4
structural_interaction_variant	GOLGA4
structural_interaction_variant	GOLGA4
structural_interaction_variant	GOLGA4
structural_interaction_variant	GOLGA4
structural_interaction_variant	GOLGA4
structural_interaction_variant	GOLGA4
structural_interaction_variant	GOLGA4
frameshift_variant	GOLGA4
structural_interaction_variant	ITGA9
structural_interaction_variant	ITGA9
structural_interaction_variant	ITGA9
structural_interaction_variant	ITGA9
structural_interaction_variant	ITGA9
structural_interaction_variant	ITGA9
structural_interaction_variant	ITGA9
structural_interaction_variant	ITGA9
stop_gained	PLCD1
frameshift_variant	PLCD1
structural_interaction_variant	DLEC1
structural_interaction_variant	DLEC1
structural_interaction_variant	DLEC1
structural_interaction_variant	DLEC1
structural_interaction_variant	DLEC1
structural_interaction_variant	DLEC1
structural_interaction_variant	DLEC1

structural_interaction_variant	DLEC1
structural_interaction_variant	DLEC1
frameshift_variant	DLEC1
stop_gained	DLEC1
structural_interaction_variant	OXSR1
frameshift_variant	SLC22A13
structural_interaction_variant	SLC22A13
splice_donor_variant&intron_variant	SLC22A13
structural_interaction_variant	SLC22A14
structural_interaction_variant	SLC22A14
structural_interaction_variant	SLC22A14
structural_interaction_variant	SLC22A14
missense_variant&splice_region_variant	XYLB
stop_gained	XYLB
structural_interaction_variant	XYLB
structural_interaction_variant	XYLB
structural_interaction_variant	XYLB
structural_interaction_variant	ACVR2B
structural_interaction_variant	SCN5A
structural_interaction_variant	SCN5A
structural_interaction_variant	SCN5A
structural_interaction_variant	SCN5A
structural_interaction_variant	SCN5A
structural_interaction_variant	SCN10A
stop_gained	SCN10A
structural_interaction_variant	SCN10A
frameshift_variant	SCN10A
structural_interaction_variant	SCN10A
structural_interaction_variant	SCN10A
frameshift_variant	SCN10A
structural_interaction_variant	SCN11A
missense_variant&splice_region_variant	SCN11A
structural_interaction_variant	SCN11A
structural_interaction_variant	SCN11A
structural_interaction_variant	SCN11A
structural_interaction_variant	WDR48
structural_interaction_variant	GORASP1
structural_interaction_variant	TTC21A
frameshift_variant&splice_region_variant	TTC21A
structural_interaction_variant	TTC21A
structural_interaction_variant	TTC21A
structural_interaction_variant	CSRNP1
structural_interaction_variant	CSRNP1
structural_interaction_variant	CSRNP1
structural_interaction_variant	XIRP1
structural_interaction_variant	XIRP1
structural_interaction_variant	XIRP1
structural_interaction_variant	XIRP1

frameshift_variant	XIRP1
structural_interaction_variant	XIRP1
structural_interaction_variant	XIRP1
structural_interaction_variant	XIRP1
structural_interaction_variant	XIRP1
frameshift_variant	CCR8
structural_interaction_variant	CCR8
structural_interaction_variant	MOBP
structural_interaction_variant	MYRIP
structural_interaction_variant	MYRIP
structural_interaction_variant	ENTPD3
structural_interaction_variant	ENTPD3
structural_interaction_variant	ENTPD3
structural_interaction_variant	ENTPD3
structural_interaction_variant	ENTPD3
structural_interaction_variant	ENTPD3
structural_interaction_variant	ZNF619
structural_interaction_variant	ZNF619
structural_interaction_variant	ZNF620
structural_interaction_variant	ZNF620
structural_interaction_variant	ZNF621
structural_interaction_variant	ULK4
structural_interaction_variant	ULK4
structural_interaction_variant	ULK4
structural_interaction_variant	ULK4
structural_interaction_variant	ULK4
frameshift_variant	TRAK1
structural_interaction_variant	TRAK1
stop_gained	CCK
frameshift_variant	VIPR1
structural_interaction_variant	VIPR1
structural_interaction_variant	SEC22C
structural_interaction_variant	NKTR
structural_interaction_variant	NKTR
structural_interaction_variant	NKTR
structural_interaction_variant	NKTR
structural_interaction_variant	ZBTB47
structural_interaction_variant	KLHL40
frameshift_variant	CCDC13
structural_interaction_variant	CYP8B1
structural_interaction_variant	CYP8B1
structural_interaction_variant	CYP8B1
stop_gained	CYP8B1
structural_interaction_variant	CYP8B1
start_lost	CYP8B1
structural_interaction_variant	ZNF662
structural_interaction_variant	ZNF662
frameshift_variant	ZNF662

structural_interaction_variant	ZNF662
structural_interaction_variant	ZNF662
structural_interaction_variant	ZNF662
frameshift_variant	ZNF662
structural_interaction_variant	ZNF662
structural_interaction_variant	KRBOX1
structural_interaction_variant	KRBOX1
stop_gained	FAM198A
structural_interaction_variant	FAM198A
structural_interaction_variant	SNRK
structural_interaction_variant	TOPAZ1
structural_interaction_variant	TOPAZ1
structural_interaction_variant	TOPAZ1
missense_variant&splice_region_variant	TCAIM
structural_interaction_variant	ZNF445
stop_gained	ZNF852
structural_interaction_variant	ZKSCAN7
structural_interaction_variant	ZKSCAN7
frameshift_variant	ZKSCAN7
structural_interaction_variant	ZKSCAN7
structural_interaction_variant	ZNF197
structural_interaction_variant	ZNF197
structural_interaction_variant	ZNF197
structural_interaction_variant	ZNF197
structural_interaction_variant	ZNF197
structural_interaction_variant	ZNF197
structural_interaction_variant	ZNF35
structural_interaction_variant	ZNF35
stop_gained	ZNF35
frameshift_variant	ZNF35
structural_interaction_variant	ZNF502
structural_interaction_variant	ZNF502
structural_interaction_variant	ZNF502
structural_interaction_variant	ZNF501
structural_interaction_variant	ZNF501
stop_gained	ZNF501
structural_interaction_variant	KIF15
structural_interaction_variant	KIF15
structural_interaction_variant	KIF15
structural_interaction_variant	KIF15
structural_interaction_variant	KIF15
structural_interaction_variant	KIF15
structural_interaction_variant	KIF15
frameshift_variant	KIF15
structural_interaction_variant	KIF15
structural_interaction_variant	KIF15
structural_interaction_variant	KIF15
structural_interaction_variant	KIF15

structural_interaction_variant	TGM4
structural_interaction_variant	TGM4
stop_gained	TGM4
structural_interaction_variant	ZDHHC3
missense_variant&splice_region_variant	ZDHHC3
structural_interaction_variant	ZDHHC3
structural_interaction_variant	EXOSC7
missense_variant&splice_region_variant	EXOSC7
stop_gained	CDCP1
structural_interaction_variant	CDCP1
structural_interaction_variant	CDCP1
structural_interaction_variant	LARS2
frameshift_variant	LARS2
structural_interaction_variant	SACM1L
structural_interaction_variant	SACM1L
structural_interaction_variant	SACM1L
structural_interaction_variant	SLC6A20
structural_interaction_variant	CCR9
structural_interaction_variant	CCR9
structural_interaction_variant	CCR3
structural_interaction_variant	CCR3
structural_interaction_variant	CCR3
structural_interaction_variant	CCR3
structural_interaction_variant	CCR2
structural_interaction_variant	CCR2
structural_interaction_variant	CCR2
structural_interaction_variant	CCR2
structural_interaction_variant	CCR2
structural_interaction_variant	CCR5
structural_interaction_variant	CCR5
structural_interaction_variant	CCRL2
structural_interaction_variant	LTF
structural_interaction_variant	LTF
structural_interaction_variant	LTF
structural_interaction_variant	RTP3
structural_interaction_variant	RTP3
structural_interaction_variant	RTP3
structural_interaction_variant	TDGF1
structural_interaction_variant	ALS2CL
structural_interaction_variant	ALS2CL
stop_gained	ALS2CL
structural_interaction_variant	PRSS50
structural_interaction_variant	PTH1R
structural_interaction_variant	CCDC12
structural_interaction_variant	CCDC12
structural_interaction_variant	NBEAL2
structural_interaction_variant	NBEAL2
structural_interaction_variant	NBEAL2

structural_interaction_variant	NBEAL2
structural_interaction_variant	NBEAL2
structural_interaction_variant	KIF9
structural_interaction_variant	KIF9
structural_interaction_variant	KIF9
structural_interaction_variant	KIF9
structural_interaction_variant	PTPN23
missense_variant&splice_region_variant	PTPN23
structural_interaction_variant	PTPN23
structural_interaction_variant	SCAP
splice_acceptor_variant&intron_variant	SCAP
structural_interaction_variant	SCAP
structural_interaction_variant	SCAP
structural_interaction_variant	SCAP
structural_interaction_variant	SCAP
structural_interaction_variant	CSPG5
structural_interaction_variant	CSPG5
structural_interaction_variant	CSPG5
structural_interaction_variant	SMARCC1
structural_interaction_variant	SMARCC1
structural_interaction_variant	SMARCC1
structural_interaction_variant	MAP4
structural_interaction_variant	MAP4
structural_interaction_variant	MAP4
structural_interaction_variant	MAP4
structural_interaction_variant	CDC25A
structural_interaction_variant	ZNF589
structural_interaction_variant	NME6
structural_interaction_variant	FBXW12
structural_interaction_variant	FBXW12
structural_interaction_variant	FBXW12
structural_interaction_variant	PLXNB1
structural_interaction_variant	PLXNB1
structural_interaction_variant	PLXNB1
stop_gained	PLXNB1
structural_interaction_variant	PLXNB1
structural_interaction_variant	PLXNB1
structural_interaction_variant	PLXNB1
stop_gained	CCDC51
missense_variant&splice_region_variant	TMA7
splice_acceptor_variant&intron_variant	TMA7
structural_interaction_variant	ATRIP
structural_interaction_variant	ATRIP
structural_interaction_variant	ATRIP
structural_interaction_variant	ATRIP
structural_interaction_variant	TREX1
structural_interaction_variant	PFKFB4
structural_interaction_variant	COL7A1

structural_interaction_variant	TMEM89
structural_interaction_variant	SLC26A6
structural_interaction_variant	SLC26A6
structural_interaction_variant	SLC26A6
structural_interaction_variant	SLC26A6
structural_interaction_variant	CELSR3
structural_interaction_variant	CELSR3
structural_interaction_variant	CELSR3
structural_interaction_variant	CELSR3
structural_interaction_variant	CELSR3
structural_interaction_variant	CELSR3
structural_interaction_variant	CELSR3
structural_interaction_variant	CELSR3
structural_interaction_variant	NCKIPSD
stop_gained	NCKIPSD
structural_interaction_variant	IP6K2
structural_interaction_variant	PRKAR2A
structural_interaction_variant	SLC25A20
structural_interaction_variant	ARIH2OS
structural_interaction_variant	P4HTM
structural_interaction_variant	P4HTM
structural_interaction_variant	P4HTM
stop_gained	WDR6
structural_interaction_variant	WDR6
stop_gained	WDR6
structural_interaction_variant	WDR6
structural_interaction_variant	WDR6
structural_interaction_variant	WDR6
structural_interaction_variant	WDR6
structural_interaction_variant	DALRD3
missense_variant&splice_region_variant	DALRD3
structural_interaction_variant	DALRD3
structural_interaction_variant	IMPDH2
structural_interaction_variant	QARS
structural_interaction_variant	QARS
structural_interaction_variant	QARS
structural_interaction_variant	QARS
structural_interaction_variant	USP19
structural_interaction_variant	LAMB2
frameshift_variant	LAMB2
structural_interaction_variant	LAMB2
structural_interaction_variant	CCDC71
structural_interaction_variant	CCDC71
structural_interaction_variant	CCDC71
structural_interaction_variant	CCDC71
stop_gained	C3orf84
structural_interaction_variant	CCDC36
structural_interaction_variant	CCDC36

structural_interaction_variant	CCDC36
structural_interaction_variant	USP4
structural_interaction_variant	USP4
structural_interaction_variant	USP4
structural_interaction_variant	USP4
structural_interaction_variant	USP4
structural_interaction_variant	USP4
structural_interaction_variant	AMT
stop_gained	DAG1
frameshift_variant	BSN
structural_interaction_variant	APEH
structural_interaction_variant	APEH
structural_interaction_variant	APEH
structural_interaction_variant	APEH
structural_interaction_variant	MST1
stop_gained&splice_region_variant	RNF123
structural_interaction_variant	RNF123
frameshift_variant	GMPPB
structural_interaction_variant	UBA7
structural_interaction_variant	UBA7
structural_interaction_variant	UBA7
structural_interaction_variant	UBA7
structural_interaction_variant	UBA7
structural_interaction_variant	UBA7
structural_interaction_variant	TRAIP
structural_interaction_variant	TRAIP
structural_interaction_variant	TRAIP
structural_interaction_variant	TRAIP
structural_interaction_variant	CAMKV
structural_interaction_variant	MST1R
structural_interaction_variant	MST1R
structural_interaction_variant	MST1R
missense_variant&splice_region_variant	MST1R
structural_interaction_variant	MST1R
structural_interaction_variant	MST1R
structural_interaction_variant	MST1R
structural_interaction_variant	MST1R
structural_interaction_variant	MST1R
structural_interaction_variant	MST1R
structural_interaction_variant	MON1A
structural_interaction_variant	MON1A
structural_interaction_variant	MON1A
structural_interaction_variant	MON1A
structural_interaction_variant	MON1A
structural_interaction_variant	RBM6
structural_interaction_variant	RBM5
structural_interaction_variant	RBM5
structural_interaction_variant	SEMA3F

structural_interaction_variant	SEMA3F
structural_interaction_variant	SEMA3F
structural_interaction_variant	SEMA3F
structural_interaction_variant	SEMA3F
structural_interaction_variant	GNAT1
structural_interaction_variant	GNAT1
structural_interaction_variant	GNAT1
structural_interaction_variant	IFRD2
structural_interaction_variant	IFRD2
structural_interaction_variant	IFRD2
structural_interaction_variant	IFRD2
structural_interaction_variant	IFRD2
structural_interaction_variant	IFRD2
structural_interaction_variant	IFRD2
frameshift_variant	HYAL3
structural_interaction_variant	HYAL3
structural_interaction_variant	HYAL3
structural_interaction_variant	NAT6
structural_interaction_variant	HYAL1
structural_interaction_variant	HYAL1
structural_interaction_variant	HYAL2
structural_interaction_variant	HYAL2
structural_interaction_variant	HYAL2
structural_interaction_variant	RASSF1
structural_interaction_variant	RASSF1
structural_interaction_variant	NPRL2
structural_interaction_variant	NPRL2
structural_interaction_variant	CACNA2D2
stop_gained	HEMK1
structural_interaction_variant	HEMK1
structural_interaction_variant	CISH
structural_interaction_variant	CISH
structural_interaction_variant	CISH
structural_interaction_variant	CISH
structural_interaction_variant	DOCK3
structural_interaction_variant	DOCK3
structural_interaction_variant	RBM15B
structural_interaction_variant	VPRBP
structural_interaction_variant	RAD54L2
structural_interaction_variant	RAD54L2
structural_interaction_variant	RAD54L2
structural_interaction_variant	GRM2
structural_interaction_variant	GRM2
stop_gained	GRM2
structural_interaction_variant	IQCF6
structural_interaction_variant	IQCF1
structural_interaction_variant	RRP9
structural_interaction_variant	PARP3

structural_interaction_variant	PCBP4
structural_interaction_variant	PCBP4
structural_interaction_variant	PCBP4
structural_interaction_variant	ABHD14B
structural_interaction_variant	ABHD14A
structural_interaction_variant	ACY1
stop_gained	ABHD14A
structural_interaction_variant	ABHD14A-ACY1
structural_interaction_variant	ABHD14A-ACY1
structural_interaction_variant	POC1A
structural_interaction_variant	ALAS1
stop_gained	ALAS1
structural_interaction_variant	TLR9
structural_interaction_variant	TLR9
structural_interaction_variant	TLR9
structural_interaction_variant	TWF2
structural_interaction_variant	PPM1M
stop_gained	DNAH1
structural_interaction_variant	DNAH1
structural_interaction_variant	DNAH1
structural_interaction_variant	DNAH1
structural_interaction_variant	DNAH1
structural_interaction_variant	DNAH1
structural_interaction_variant	DNAH1
structural_interaction_variant	DNAH1
structural_interaction_variant	SEMA3G
frameshift_variant	SEMA3G
structural_interaction_variant	NISCH
structural_interaction_variant	NISCH
structural_interaction_variant	NISCH
structural_interaction_variant	NISCH
structural_interaction_variant	NISCH
structural_interaction_variant	NISCH
structural_interaction_variant	STAB1
structural_interaction_variant	STAB1
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structural_interaction_variant	STAB1
structural_interaction_variant	STAB1
structural_interaction_variant	STAB1
structural_interaction_variant	STAB1
structural_interaction_variant	STAB1
structural_interaction_variant	STAB1
structural_interaction_variant	STAB1
structural_interaction_variant	NT5DC2
structural_interaction_variant	NT5DC2
structural_interaction_variant	PBRM1
structural_interaction_variant	PBRM1

structural_interaction_variant	PBRM1
structural_interaction_variant	GNL3
splice_acceptor_variant&intron_variant	GNL3
structural_interaction_variant	GNL3
structural_interaction_variant	GLT8D1
structural_interaction_variant	GLT8D1
structural_interaction_variant	GLT8D1
structural_interaction_variant	GLT8D1
structural_interaction_variant	SPCS1
structural_interaction_variant	SPCS1
structural_interaction_variant	SPCS1
structural_interaction_variant	NEK4
structural_interaction_variant	NEK4
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structural_interaction_variant	NEK4
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structural_interaction_variant	NEK4
structural_interaction_variant	NEK4
structural_interaction_variant	NEK4
splice_acceptor_variant&intron_variant	NEK4
structural_interaction_variant	ITIH1
structural_interaction_variant	ITIH1
structural_interaction_variant	ITIH1
frameshift_variant&stop_gained	ITIH1
structural_interaction_variant	ITIH3
structural_interaction_variant	ITIH3
structural_interaction_variant	ITIH3
splice_acceptor_variant&intron_variant	ITIH3
missense_variant&splice_region_variant	ITIH3
structural_interaction_variant	ITIH4
structural_interaction_variant	ITIH4
structural_interaction_variant	ITIH4
structural_interaction_variant	ITIH4
structural_interaction_variant	ITIH4
structural_interaction_variant	TMEM110
structural_interaction_variant	SFMBT1
structural_interaction_variant	DCP1A
structural_interaction_variant	DCP1A
structural_interaction_variant	DCP1A
structural_interaction_variant	DCP1A
structural_interaction_variant	CACNA1D
structural_interaction_variant	CACNA1D
structural_interaction_variant	CACNA1D
missense_variant&splice_region_variant	CACNA1D
structural_interaction_variant	CACNA1D
structural_interaction_variant	CACNA1D
structural_interaction_variant	CACNA1D
structural_interaction_variant	CACNA1D

structural_interaction_variant	CACNA1D
structural_interaction_variant	CACNA1D
structural_interaction_variant	CACNA1D
structural_interaction_variant	CACNA1D
structural_interaction_variant	IL17RB
structural_interaction_variant	ACTR8
structural_interaction_variant	ACTR8
structural_interaction_variant	CACNA2D3
structural_interaction_variant	CACNA2D3
structural_interaction_variant	CACNA2D3
structural_interaction_variant	CACNA2D3
structural_interaction_variant	CACNA2D3
structural_interaction_variant	LRTM1
structural_interaction_variant	LRTM1
structural_interaction_variant	LRTM1
structural_interaction_variant	CACNA2D3
structural_interaction_variant	ERC2
structural_interaction_variant	ERC2
structural_interaction_variant	CCDC66
frameshift_variant	CCDC66
disruptive_inframe_deletion	CCDC66
missense_variant&splice_region_variant	CCDC66
structural_interaction_variant	CCDC66
splice_donor_variant&splice_region_variant&intron_	CCDC66
splice_donor_variant&intron_variant	CCDC66
structural_interaction_variant	FAM208A
structural_interaction_variant	FAM208A
structural_interaction_variant	FAM208A
structural_interaction_variant	FAM208A
structural_interaction_variant	FAM208A
structural_interaction_variant	FAM208A
structural_interaction_variant	FAM208A
structural_interaction_variant	FAM208A
structural_interaction_variant	ARHGEF3
structural_interaction_variant	ARHGEF3
structural_interaction_variant	IL17RD
structural_interaction_variant	ASB14
structural_interaction_variant	ASB14
structural_interaction_variant	ASB14
structural_interaction_variant	ASB14
structural_interaction_variant	ASB14
structural_interaction_variant	DNAH12
structural_interaction_variant	DNAH12
structural_interaction_variant	DNAH12
structural_interaction_variant	DNAH12
stop_gained	DNAH12
structural_interaction_variant	DNAH12
stop_gained	DNAH12

stop_gained	DNAH12
stop_gained	DNAH12
stop_gained&splice_region_variant	DNAH12
structural_interaction_variant	DNAH12
splice_acceptor_variant&intron_variant	DNAH12
frameshift_variant	DNAH12
structural_interaction_variant	PDE12
structural_interaction_variant	PDE12
structural_interaction_variant	PDE12
structural_interaction_variant	ARF4
structural_interaction_variant	DENND6A
structural_interaction_variant	SLMAP
structural_interaction_variant	SLMAP
structural_interaction_variant	SLMAP
structural_interaction_variant	FLNB
structural_interaction_variant	FLNB
structural_interaction_variant	FLNB
structural_interaction_variant	FLNB
structural_interaction_variant	FLNB
structural_interaction_variant	FLNB
structural_interaction_variant	ABHD6
structural_interaction_variant	RPP14
structural_interaction_variant	PDHB
stop_gained	ACOX2
structural_interaction_variant	FAM107A
structural_interaction_variant	FAM3D
structural_interaction_variant	C3orf67
structural_interaction_variant	C3orf67
structural_interaction_variant	C3orf67
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structural_interaction_variant	C3orf67
structural_interaction_variant	PTPRG
structural_interaction_variant	PTPRG
structural_interaction_variant	PTPRG
structural_interaction_variant	PTPRG
structural_interaction_variant	PTPRG
structural_interaction_variant	C3orf14
structural_interaction_variant	FEZF2
structural_interaction_variant	CADPS
structural_interaction_variant	CADPS
structural_interaction_variant	CADPS
structural_interaction_variant	CADPS
structural_interaction_variant	SYNPR
structural_interaction_variant	SYNPR

structural_interaction_variant	SNTN
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structural_interaction_variant	SNTN
structural_interaction_variant	ATXN7
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structural_interaction_variant	ATXN7
structural_interaction_variant	ATXN7
structural_interaction_variant	PSMD6
structural_interaction_variant	PSMD6
structural_interaction_variant	PRICKLE2
structural_interaction_variant	PRICKLE2
structural_interaction_variant	PRICKLE2
structural_interaction_variant	ADAMTS9
structural_interaction_variant	ADAMTS9
structural_interaction_variant	ADAMTS9
structural_interaction_variant	ADAMTS9
structural_interaction_variant	ADAMTS9
structural_interaction_variant	ADAMTS9
structural_interaction_variant	ADAMTS9
structural_interaction_variant	MAGI1
structural_interaction_variant	MAGI1
structural_interaction_variant	MAGI1
structural_interaction_variant	MAGI1
structural_interaction_variant	MAGI1
structural_interaction_variant	MAGI1
structural_interaction_variant	SLC25A26
stop_gained	SLC25A26
structural_interaction_variant	LRIG1
structural_interaction_variant	LRIG1
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structural_interaction_variant	LRIG1
structural_interaction_variant	LRIG1
structural_interaction_variant	LRIG1
frameshift_variant	LRIG1
structural_interaction_variant	LRIG1
structural_interaction_variant	LRIG1
structural_interaction_variant	SUCLG2
frameshift_variant	SUCLG2
structural_interaction_variant	FAM19A4

structural_interaction_variant	EOGT
structural_interaction_variant	EOGT
structural_interaction_variant	EOGT
structural_interaction_variant	TMF1
structural_interaction_variant	TMF1
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structural_interaction_variant	TMF1
structural_interaction_variant	TMF1
structural_interaction_variant	TMF1
structural_interaction_variant	TMF1
structural_interaction_variant	ARL6IP5
structural_interaction_variant	ARL6IP5
structural_interaction_variant	LMOD3
structural_interaction_variant	FRMD4B
splice_donor_variant&intron_variant	FRMD4B
splice_donor_variant&intron_variant	FRMD4B
structural_interaction_variant	FRMD4B
structural_interaction_variant	FRMD4B
structural_interaction_variant	MITF
structural_interaction_variant	EIF4E3
structural_interaction_variant	PROK2
structural_interaction_variant	PROK2
structural_interaction_variant	GXYLT2
structural_interaction_variant	GXYLT2
structural_interaction_variant	EBLN2
structural_interaction_variant	EBLN2
structural_interaction_variant	CNTN3
structural_interaction_variant	CNTN3
structural_interaction_variant	CNTN3
structural_interaction_variant	CNTN3
structural_interaction_variant	CNTN3
structural_interaction_variant	ROBO2
structural_interaction_variant	GBE1
structural_interaction_variant	CADM2
structural_interaction_variant	CHMP2B
structural_interaction_variant	HTR1F
stop_gained	HTR1F
structural_interaction_variant	C3orf38
structural_interaction_variant	C3orf38
structural_interaction_variant	EPHA3
structural_interaction_variant	EPHA3
structural_interaction_variant	EPHA3
structural_interaction_variant	EPHA3
frameshift_variant	PROS1
structural_interaction_variant	ARL13B

structural_interaction_variant	STX19
frameshift_variant	STX19
stop_gained	ARL13B
structural_interaction_variant	NSUN3
structural_interaction_variant	NSUN3
structural_interaction_variant	NSUN3
structural_interaction_variant	NSUN3
structural_interaction_variant	NSUN3
structural_interaction_variant	EPHA6
structural_interaction_variant	EPHA6
structural_interaction_variant	EPHA6
stop_gained	ARL6
stop_gained	CRYBG3
structural_interaction_variant	CRYBG3
structural_interaction_variant	CRYBG3
structural_interaction_variant	CRYBG3
structural_interaction_variant	CRYBG3
structural_interaction_variant	CRYBG3
structural_interaction_variant	CRYBG3
structural_interaction_variant	MINA
structural_interaction_variant	GABRR3
structural_interaction_variant	GABRR3
structural_interaction_variant	GABRR3
stop_gained	GABRR3
structural_interaction_variant	GABRR3
missense_variant&splice_region_variant	GABRR3
structural_interaction_variant	GABRR3
structural_interaction_variant	GABRR3
structural_interaction_variant	OR5AC2
structural_interaction_variant	OR5AC2
structural_interaction_variant	OR5AC2
structural_interaction_variant	OR5AC2
structural_interaction_variant	OR5H1
structural_interaction_variant	OR5H14
frameshift_variant	OR5H2
structural_interaction_variant	OR5H2
structural_interaction_variant	OR5H2
structural_interaction_variant	OR5K4
structural_interaction_variant	OR5K4
structural_interaction_variant	OR5K4
structural_interaction_variant	OR5K4
stop_gained	OR5K4
structural_interaction_variant	OR5K3
stop_gained	OR5K1
frameshift_variant	OR5K1
structural_interaction_variant	OR5K1
structural_interaction_variant	CLDND1
structural_interaction_variant	GPR15

structural_interaction_variant	GPR15
structural_interaction_variant	CPOX
stop_gained	ST3GAL6
splice_donor_variant&intron_variant	ST3GAL6
structural_interaction_variant	ST3GAL6
structural_interaction_variant	DCBLD2
structural_interaction_variant	DCBLD2
structural_interaction_variant	COL8A1
structural_interaction_variant	COL8A1
structural_interaction_variant	COL8A1
structural_interaction_variant	FILIP1L
structural_interaction_variant	FILIP1L
structural_interaction_variant	FILIP1L
structural_interaction_variant	FILIP1L
structural_interaction_variant	CMSS1
structural_interaction_variant	CMSS1
structural_interaction_variant	NIT2
structural_interaction_variant	NIT2
structural_interaction_variant	NIT2
stop_gained	LNP1
structural_interaction_variant	LNP1
stop_gained	TMEM45A
structural_interaction_variant	TMEM45A
missense_variant&splice_region_variant	TMEM45A
structural_interaction_variant	GPR128
missense_variant&splice_region_variant	GPR128
structural_interaction_variant	GPR128
frameshift_variant	GPR128
structural_interaction_variant	GPR128
structural_interaction_variant	TFG
structural_interaction_variant	TFG
structural_interaction_variant	ABI3BP
structural_interaction_variant	ABI3BP
structural_interaction_variant	ABI3BP
structural_interaction_variant	ABI3BP
structural_interaction_variant	ABI3BP
structural_interaction_variant	ABI3BP
structural_interaction_variant	ABI3BP
structural_interaction_variant	SENP7
structural_interaction_variant	SENP7
structural_interaction_variant	SENP7
disruptive_inframe_deletion	SENP7
structural_interaction_variant	TRMT10C
frameshift_variant	ZBTB11
structural_interaction_variant	ZBTB11
structural_interaction_variant	ZBTB11
structural_interaction_variant	CEP97
missense_variant&splice_region_variant	CEP97

structural_interaction_variant	NXPE3
structural_interaction_variant	NXPE3
structural_interaction_variant	ALCAM
structural_interaction_variant	ALCAM
structural_interaction_variant	CBLB
structural_interaction_variant	CBLB
structural_interaction_variant	CBLB
structural_interaction_variant	BBX
structural_interaction_variant	BBX
structural_interaction_variant	BBX
structural_interaction_variant	BBX
structural_interaction_variant	BBX
structural_interaction_variant	BBX
structural_interaction_variant	CD47
structural_interaction_variant	CD47
structural_interaction_variant	CD47
structural_interaction_variant	HHLA2
structural_interaction_variant	MYH15
structural_interaction_variant	MYH15
structural_interaction_variant	MYH15
structural_interaction_variant	MYH15
structural_interaction_variant	MYH15
structural_interaction_variant	MYH15
stop_gained	MYH15
frameshift_variant	MYH15
structural_interaction_variant	MYH15
structural_interaction_variant	MYH15
structural_interaction_variant	MYH15
frameshift_variant	MYH15
frameshift_variant	MYH15
structural_interaction_variant	MYH15
frameshift_variant	MYH15
structural_interaction_variant	MYH15
structural_interaction_variant	MYH15
structural_interaction_variant	MYH15
structural_interaction_variant	KIAA1524
structural_interaction_variant	KIAA1524
structural_interaction_variant	DZIP3
structural_interaction_variant	DZIP3
structural_interaction_variant	DZIP3
structural_interaction_variant	DZIP3
structural_interaction_variant	DZIP3
missense_variant&splice_region_variant	DZIP3
structural_interaction_variant	DZIP3
structural_interaction_variant	DZIP3
structural_interaction_variant	TRAT1
stop_gained	GUCA1C
structural_interaction_variant	GUCA1C

missense_variant&splice_region_variant	MORC1
structural_interaction_variant	MORC1
frameshift_variant	DPPA4
structural_interaction_variant	DPPA4
structural_interaction_variant	CD96
structural_interaction_variant	CD96
structural_interaction_variant	CD96
stop_gained	PLCXD2
structural_interaction_variant	PLCXD2
structural_interaction_variant	PHLDB2
structural_interaction_variant	PHLDB2
structural_interaction_variant	PHLDB2
structural_interaction_variant	PHLDB2
structural_interaction_variant	PHLDB2
structural_interaction_variant	PHLDB2
structural_interaction_variant	PHLDB2
structural_interaction_variant	PHLDB2
structural_interaction_variant	PHLDB2
structural_interaction_variant	TAGLN3
structural_interaction_variant	TAGLN3
splice_acceptor_variant&intron_variant	TMPRSS7
structural_interaction_variant	TMPRSS7
structural_interaction_variant	TMPRSS7
structural_interaction_variant	C3orf52
structural_interaction_variant	SLC9C1
structural_interaction_variant	SLC9C1
structural_interaction_variant	SLC9C1
structural_interaction_variant	SLC9C1
structural_interaction_variant	SLC9C1
structural_interaction_variant	SLC9C1
structural_interaction_variant	SLC9C1
structural_interaction_variant	SLC9C1
structural_interaction_variant	ATG3
structural_interaction_variant	SLC35A5
structural_interaction_variant	SLC35A5
structural_interaction_variant	SLC35A5
frameshift_variant	SLC35A5
structural_interaction_variant	SLC35A5
structural_interaction_variant	SLC35A5
structural_interaction_variant	CCDC80
structural_interaction_variant	CCDC80
structural_interaction_variant	CCDC80
structural_interaction_variant	CCDC80
structural_interaction_variant	CCDC80
structural_interaction_variant	CCDC80
structural_interaction_variant	CD200R1L
structural_interaction_variant	CD200R1L
structural_interaction_variant	C3orf17

structural_interaction_variant	C3orf17
structural_interaction_variant	C3orf17
structural_interaction_variant	BOC
structural_interaction_variant	BOC
structural_interaction_variant	BOC
structural_interaction_variant	BOC
structural_interaction_variant	WDR52
frameshift_variant	WDR52
stop_gained	WDR52
structural_interaction_variant	WDR52
missense_variant&splice_region_variant	WDR52
structural_interaction_variant	WDR52
structural_interaction_variant	WDR52
structural_interaction_variant	WDR52
stop_gained	WDR52
structural_interaction_variant	WDR52
structural_interaction_variant	WDR52
structural_interaction_variant	WDR52
structural_interaction_variant	SPICE1
structural_interaction_variant	SPICE1
stop_gained	SPICE1
structural_interaction_variant	SPICE1
structural_interaction_variant	SPICE1
structural_interaction_variant	SPICE1
structural_interaction_variant	SPICE1
splice_acceptor_variant&intron_variant	SIDT1
structural_interaction_variant	SIDT1
structural_interaction_variant	SIDT1
structural_interaction_variant	SIDT1
structural_interaction_variant	SIDT1
structural_interaction_variant	SIDT1
structural_interaction_variant	SIDT1
structural_interaction_variant	SIDT1
structural_interaction_variant	KIAA2018
structural_interaction_variant	KIAA2018
structural_interaction_variant	KIAA2018
structural_interaction_variant	KIAA2018
structural_interaction_variant	KIAA2018
structural_interaction_variant	KIAA2018
frameshift_variant	ATP6V1A
structural_interaction_variant	GRAMD1C
structural_interaction_variant	GRAMD1C
structural_interaction_variant	GRAMD1C
stop_gained	GRAMD1C
stop_gained	GRAMD1C
structural_interaction_variant	GRAMD1C
structural_interaction_variant	ZDHHC23
structural_interaction_variant	ZDHHC23

structural_interaction_variant	ZDHHC23
structural_interaction_variant	KIAA1407
structural_interaction_variant	KIAA1407
structural_interaction_variant	KIAA1407
structural_interaction_variant	KIAA1407
structural_interaction_variant	KIAA1407
structural_interaction_variant	DRD3
structural_interaction_variant	DRD3
structural_interaction_variant	DRD3
structural_interaction_variant	ZNF80
structural_interaction_variant	TIGIT
structural_interaction_variant	TIGIT
structural_interaction_variant	TIGIT
structural_interaction_variant	TIGIT
structural_interaction_variant	TIGIT
structural_interaction_variant	GAP43
structural_interaction_variant	GAP43
structural_interaction_variant	GAP43
structural_interaction_variant	LSAMP
structural_interaction_variant	LSAMP
structural_interaction_variant	IGSF11
structural_interaction_variant	C3orf30
stop_gained	C3orf30
structural_interaction_variant	RP11-484M3.5
structural_interaction_variant	UPK1B
frameshift_variant	B4GALT4
structural_interaction_variant	B4GALT4
structural_interaction_variant	B4GALT4
structural_interaction_variant	ARHGAP31
structural_interaction_variant	ARHGAP31
structural_interaction_variant	ARHGAP31
structural_interaction_variant	TMEM39A
structural_interaction_variant	TMEM39A
structural_interaction_variant	TMEM39A
structural_interaction_variant	TMEM39A
structural_interaction_variant	TIMMDC1
start_lost	CD80
structural_interaction_variant	PLA1A
structural_interaction_variant	PLA1A
structural_interaction_variant	PLA1A
frameshift_variant	PLA1A
stop_gained	POPDC2
structural_interaction_variant	POPDC2
splice_acceptor_variant&intron_variant	POPDC2
structural_interaction_variant	NR1I2
structural_interaction_variant	NR1I2
structural_interaction_variant	GSK3B
structural_interaction_variant	GSK3B

structural_interaction_variant	GSK3B
structural_interaction_variant	GSK3B
structural_interaction_variant	GPR156
structural_interaction_variant	GPR156
structural_interaction_variant	GPR156
structural_interaction_variant	GPR156
structural_interaction_variant	FSTL1
structural_interaction_variant	HGD
structural_interaction_variant	HGD
structural_interaction_variant	RABL3
structural_interaction_variant	GTF2E1
structural_interaction_variant	STXBP5L
structural_interaction_variant	STXBP5L
structural_interaction_variant	STXBP5L
structural_interaction_variant	STXBP5L
frameshift_variant	STXBP5L
structural_interaction_variant	STXBP5L
structural_interaction_variant	POLQ
structural_interaction_variant	POLQ
stop_gained	POLQ
missense_variant&splice_region_variant	POLQ
structural_interaction_variant	POLQ
structural_interaction_variant	POLQ
structural_interaction_variant	POLQ
frameshift_variant	POLQ
structural_interaction_variant	POLQ
structural_interaction_variant	POLQ
frameshift_variant	POLQ
structural_interaction_variant	POLQ
structural_interaction_variant	POLQ
structural_interaction_variant	POLQ
structural_interaction_variant	POLQ
structural_interaction_variant	POLQ
structural_interaction_variant	FBXO40
structural_interaction_variant	FBXO40
structural_interaction_variant	FBXO40
frameshift_variant	FBXO40
structural_interaction_variant	HCLS1
missense_variant&splice_region_variant	GOLGB1
structural_interaction_variant	GOLGB1
structural_interaction_variant	GOLGB1
structural_interaction_variant	GOLGB1
structural_interaction_variant	GOLGB1
frameshift_variant	GOLGB1
structural_interaction_variant	GOLGB1
structural_interaction_variant	GOLGB1
stop_gained	GOLGB1
frameshift_variant	GOLGB1

structural_interaction_variant	GOLGB1
structural_interaction_variant	GOLGB1
structural_interaction_variant	GOLGB1
structural_interaction_variant	GOLGB1
structural_interaction_variant	GOLGB1
structural_interaction_variant	GOLGB1
structural_interaction_variant	GOLGB1
structural_interaction_variant	EAF2
structural_interaction_variant	SLC15A2
structural_interaction_variant	SLC15A2
splice_donor_variant&intron_variant	SLC15A2
structural_interaction_variant	SLC15A2
structural_interaction_variant	SLC15A2
frameshift_variant	ILDR1
structural_interaction_variant	CD86
structural_interaction_variant	CASR
structural_interaction_variant	WDR5B
structural_interaction_variant	WDR5B
structural_interaction_variant	WDR5B
structural_interaction_variant	PARP9
structural_interaction_variant	PARP9
structural_interaction_variant	PARP9
structural_interaction_variant	PARP9
structural_interaction_variant	DTX3L
frameshift_variant	DTX3L
frameshift_variant&stop_gained	DTX3L
structural_interaction_variant	PARP15
structural_interaction_variant	PARP15
structural_interaction_variant	PARP15
structural_interaction_variant	PARP15
structural_interaction_variant	PARP15
structural_interaction_variant	PARP15
structural_interaction_variant	PARP15
structural_interaction_variant	PARP14
structural_interaction_variant	PARP14
structural_interaction_variant	PARP14
structural_interaction_variant	PARP14
structural_interaction_variant	PARP14
structural_interaction_variant	HSPBAP1
structural_interaction_variant	HSPBAP1
structural_interaction_variant	HSPBAP1
structural_interaction_variant	DIRC2
structural_interaction_variant	DIRC2
structural_interaction_variant	SEMA5B
structural_interaction_variant	SEMA5B
structural_interaction_variant	PDIA5
structural_interaction_variant	SEC22A
structural_interaction_variant	ADCY5

structural_interaction_variant	ADCY5
structural_interaction_variant	MYLK
structural_interaction_variant	CCDC14
structural_interaction_variant	CCDC14
structural_interaction_variant	CCDC14
structural_interaction_variant	CCDC14
structural_interaction_variant	CCDC14
structural_interaction_variant	CCDC14
structural_interaction_variant	ROPN1
structural_interaction_variant	KALRN
structural_interaction_variant	KALRN
structural_interaction_variant	KALRN
structural_interaction_variant	KALRN
structural_interaction_variant	KALRN
missense_variant&splice_region_variant	KALRN
structural_interaction_variant	KALRN
structural_interaction_variant	KALRN
missense_variant&splice_region_variant	KALRN
structural_interaction_variant	KALRN
structural_interaction_variant	KALRN
structural_interaction_variant	UMPS
structural_interaction_variant	UMPS
structural_interaction_variant	ITGB5
stop_gained	ITGB5
structural_interaction_variant	ITGB5
structural_interaction_variant	ITGB5
structural_interaction_variant	ITGB5
structural_interaction_variant	HEG1
structural_interaction_variant	HEG1
structural_interaction_variant	HEG1
stop_gained	HEG1
frameshift_variant	HEG1
structural_interaction_variant	HEG1
disruptive_inframe_deletion	HEG1
splice_acceptor_variant&intron_variant	SLC12A8
structural_interaction_variant	SLC12A8
structural_interaction_variant	SLC12A8
structural_interaction_variant	SLC12A8
structural_interaction_variant	SLC12A8
missense_variant&splice_region_variant	SLC12A8
stop_gained	SLC12A8
structural_interaction_variant	SLC12A8
structural_interaction_variant	SLC12A8
structural_interaction_variant	OSBPL11
structural_interaction_variant	OSBPL11
structural_interaction_variant	OSBPL11
structural_interaction_variant	OSBPL11
missense_variant&splice_region_variant	OSBPL11

structural_interaction_variant	SLC41A3
structural_interaction_variant	SLC41A3
structural_interaction_variant	ALDH1L1
structural_interaction_variant	ALDH1L1
structural_interaction_variant	KLF15
structural_interaction_variant	CCDC37
structural_interaction_variant	CCDC37
structural_interaction_variant	ZXDC
structural_interaction_variant	UROC1
structural_interaction_variant	UROC1
structural_interaction_variant	UROC1
splice_acceptor_variant&intron_variant	UROC1
structural_interaction_variant	UROC1
structural_interaction_variant	UROC1
structural_interaction_variant	UROC1
structural_interaction_variant	UROC1
structural_interaction_variant	UROC1
structural_interaction_variant	CHST13
structural_interaction_variant	PLXNA1
structural_interaction_variant	PLXNA1
structural_interaction_variant	PLXNA1
structural_interaction_variant	PLXNA1
structural_interaction_variant	PLXNA1
structural_interaction_variant	PLXNA1
structural_interaction_variant	PLXNA1
structural_interaction_variant	PLXNA1
structural_interaction_variant	PLXNA1
structural_interaction_variant	PLXNA1
structural_interaction_variant	PLXNA1
structural_interaction_variant	TPRA1
structural_interaction_variant	TPRA1
structural_interaction_variant	MCM2
structural_interaction_variant	MCM2
structural_interaction_variant	MCM2
structural_interaction_variant	MCM2
missense_variant&splice_region_variant	MCM2
structural_interaction_variant	MCM2
structural_interaction_variant	MCM2
structural_interaction_variant	MCM2
frameshift_variant	MCM2
structural_interaction_variant	PODXL2
structural_interaction_variant	PODXL2
structural_interaction_variant	ABTB1
structural_interaction_variant	ABTB1
structural_interaction_variant	KBTBD12
structural_interaction_variant	KBTBD12
structural_interaction_variant	KBTBD12
structural_interaction_variant	KBTBD12

splice_donor_variant&intron_variant	KBTBD12
structural_interaction_variant	KBTBD12
structural_interaction_variant	RUVBL1
structural_interaction_variant	RUVBL1
structural_interaction_variant	RUVBL1
structural_interaction_variant	RUVBL1
structural_interaction_variant	RUVBL1
structural_interaction_variant	RUVBL1
structural_interaction_variant	EEFSEC
structural_interaction_variant	EEFSEC
structural_interaction_variant	EEFSEC
structural_interaction_variant	EEFSEC
structural_interaction_variant	EEFSEC
structural_interaction_variant	EEFSEC
structural_interaction_variant	DNAJB8
structural_interaction_variant	DNAJB8
structural_interaction_variant	DNAJB8
stop_gained	DNAJB8
structural_interaction_variant	DNAJB8
structural_interaction_variant	GATA2
structural_interaction_variant	GATA2
structural_interaction_variant	GATA2
structural_interaction_variant	C3orf27
frameshift_variant&stop_gained	RPN1
structural_interaction_variant	RP11-723O4.6
structural_interaction_variant	CNBP
missense_variant&splice_region_variant	COPG1
structural_interaction_variant	COPG1
structural_interaction_variant	COPG1
structural_interaction_variant	COPG1
structural_interaction_variant	COPG1
structural_interaction_variant	COPG1
structural_interaction_variant	EFCAB12
structural_interaction_variant	EFCAB12
stop_gained	EFCAB12
structural_interaction_variant	EFCAB12
structural_interaction_variant	MBD4
structural_interaction_variant	MBD4
structural_interaction_variant	IFT122
structural_interaction_variant	RHO
structural_interaction_variant	H1FOO
structural_interaction_variant	PLXND1
structural_interaction_variant	TRH
frameshift_variant	TRH
structural_interaction_variant	TRH
frameshift_variant	COL6A5
frameshift_variant	COL6A5
stop_gained	COL6A5

frameshift_variant	COL6A5
stop_gained	COL6A6
structural_interaction_variant	COL6A6
stop_gained	COL6A6
frameshift_variant&splice_region_variant	COL6A6
structural_interaction_variant	COL6A6
stop_gained	COL6A6
structural_interaction_variant	PIK3R4
structural_interaction_variant	PIK3R4
structural_interaction_variant	PIK3R4
structural_interaction_variant	PIK3R4
structural_interaction_variant	PIK3R4
frameshift_variant&stop_gained	ASTE1
start_lost	ASTE1
start_lost	ASTE1
structural_interaction_variant	NEK11
structural_interaction_variant	NEK11
structural_interaction_variant	NEK11
structural_interaction_variant	NEK11
frameshift_variant	NEK11
splice_donor_variant&intron_variant	NEK11
structural_interaction_variant	NEK11
structural_interaction_variant	NUDT16
frameshift_variant	NUDT16
frameshift_variant	NUDT16
stop_gained	MRPL3
structural_interaction_variant	CPNE4
structural_interaction_variant	CPNE4
structural_interaction_variant	ACPP
structural_interaction_variant	ACPP
structural_interaction_variant	ACPP
structural_interaction_variant	ACPP
frameshift_variant	ACPP
structural_interaction_variant	DNAJC13
structural_interaction_variant	DNAJC13
structural_interaction_variant	DNAJC13
structural_interaction_variant	DNAJC13
structural_interaction_variant	DNAJC13
structural_interaction_variant	DNAJC13
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structural_interaction_variant	DNAJC13
structural_interaction_variant	DNAJC13
structural_interaction_variant	DNAJC13
structural_interaction_variant	DNAJC13
structural_interaction_variant	ACAD11

structural_interaction_variant	ACAD11
structural_interaction_variant	ACAD11
stop_gained	UBA5
splice_acceptor_variant&intron_variant	TMEM108
structural_interaction_variant	TMEM108
structural_interaction_variant	TMEM108
structural_interaction_variant	TMEM108
frameshift_variant	BFSP2
structural_interaction_variant	BFSP2
structural_interaction_variant	CDV3
frameshift_variant	CDV3
structural_interaction_variant	CDV3
structural_interaction_variant	TOPBP1
structural_interaction_variant	TOPBP1
structural_interaction_variant	TOPBP1
structural_interaction_variant	TOPBP1
structural_interaction_variant	TOPBP1
structural_interaction_variant	TOPBP1
structural_interaction_variant	TOPBP1
structural_interaction_variant	TOPBP1
missense_variant&splice_region_variant	TOPBP1
structural_interaction_variant	RAB6B
structural_interaction_variant	RYK
structural_interaction_variant	RYK
structural_interaction_variant	AMOTL2
frameshift_variant	CEP63
structural_interaction_variant	CEP63
structural_interaction_variant	CEP63
structural_interaction_variant	CEP63
frameshift_variant	KY
frameshift_variant	KY
structural_interaction_variant	EPHB1
structural_interaction_variant	EPHB1
structural_interaction_variant	EPHB1
structural_interaction_variant	PPP2R3A
structural_interaction_variant	PPP2R3A
structural_interaction_variant	PPP2R3A
structural_interaction_variant	PPP2R3A
structural_interaction_variant	PPP2R3A
structural_interaction_variant	PPP2R3A
structural_interaction_variant	PPP2R3A
structural_interaction_variant	PPP2R3A
frameshift_variant	PCCB
structural_interaction_variant	PCCB
stop_gained	PCCB
structural_interaction_variant	STAG1
frameshift_variant	SLC35G2
structural_interaction_variant	SLC35G2

structural_interaction_variant	SLC35G2
structural_interaction_variant	IL20RB
stop_gained	DZIP1L
structural_interaction_variant	A4GNT
structural_interaction_variant	A4GNT
structural_interaction_variant	A4GNT
splice_acceptor_variant&intron_variant	ARMC8
structural_interaction_variant	ARMC8
structural_interaction_variant	ARMC8
structural_interaction_variant	ESYT3
structural_interaction_variant	ESYT3
structural_interaction_variant	ESYT3
structural_interaction_variant	ESYT3
structural_interaction_variant	ESYT3
structural_interaction_variant	ESYT3
splice_donor_variant&intron_variant	ESYT3
structural_interaction_variant	CEP70
splice_donor_variant&intron_variant	CEP70
structural_interaction_variant	CEP70
structural_interaction_variant	CEP70
structural_interaction_variant	CEP70
frameshift_variant	CEP70
splice_donor_variant&intron_variant	CEP70
structural_interaction_variant	PIK3CB
structural_interaction_variant	PIK3CB
missense_variant&splice_region_variant	PIK3CB
structural_interaction_variant	PIK3CB
stop_gained	C3orf72
structural_interaction_variant	RBP1
structural_interaction_variant	RBP1
structural_interaction_variant	CLSTN2
structural_interaction_variant	CLSTN2
structural_interaction_variant	CLSTN2
structural_interaction_variant	CLSTN2
structural_interaction_variant	TRIM42
structural_interaction_variant	TRIM42
structural_interaction_variant	TRIM42
structural_interaction_variant	TRIM42
stop_gained&splice_region_variant	TRIM42
structural_interaction_variant	TRIM42
structural_interaction_variant	TRIM42
structural_interaction_variant	TRIM42
structural_interaction_variant	SLC25A36
structural_interaction_variant	SLC25A36
structural_interaction_variant	SLC25A36
structural_interaction_variant	SLC25A36
structural_interaction_variant	ACPL2
frameshift_variant	ACPL2

structural_interaction_variant	ZBTB38
structural_interaction_variant	ZBTB38
structural_interaction_variant	ZBTB38
structural_interaction_variant	ZBTB38
stop_gained	RASA2
stop_gained	RASA2
structural_interaction_variant	RNF7
structural_interaction_variant	GRK7
structural_interaction_variant	GRK7
structural_interaction_variant	GRK7
structural_interaction_variant	GRK7
structural_interaction_variant	ATP1B3
structural_interaction_variant	TFDP2
structural_interaction_variant	TFDP2
structural_interaction_variant	TFDP2
structural_interaction_variant	TFDP2
structural_interaction_variant	XRN1
structural_interaction_variant	XRN1
structural_interaction_variant	XRN1
structural_interaction_variant	XRN1
structural_interaction_variant	XRN1
structural_interaction_variant	XRN1
structural_interaction_variant	ATR
structural_interaction_variant	ATR
structural_interaction_variant	PLS1
stop_gained	TRPC1
structural_interaction_variant	TRPC1
stop_gained&splice_region_variant	TRPC1
missense_variant&splice_region_variant	PCOLCE2
structural_interaction_variant	PCOLCE2
missense_variant&splice_region_variant	PCOLCE2
stop_gained	CHST2
structural_interaction_variant	CHST2
structural_interaction_variant	CHST2
structural_interaction_variant	CHST2
structural_interaction_variant	SLC9A9
structural_interaction_variant	SLC9A9
structural_interaction_variant	SLC9A9
structural_interaction_variant	SLC9A9
structural_interaction_variant	SLC9A9
structural_interaction_variant	SLC9A9
structural_interaction_variant	PLSCR4
structural_interaction_variant	PLSCR2
structural_interaction_variant	PLSCR2
stop_gained	PLSCR5
stop_gained	ZIC4
structural_interaction_variant	ZIC4
structural_interaction_variant	ZIC4

structural_interaction_variant	CPA3
splice_acceptor_variant&intron_variant	CPA3
structural_interaction_variant	CPA3
structural_interaction_variant	CPA3
structural_interaction_variant	CPA3
stop_gained	HLTF
missense_variant&splice_region_variant	HLTF
structural_interaction_variant	HLTF
structural_interaction_variant	CP
frameshift_variant	CP
start_lost	TM4SF18
structural_interaction_variant	TM4SF4
structural_interaction_variant	TM4SF4
stop_gained	ANKUB1
missense_variant&splice_region_variant	ANKUB1
structural_interaction_variant	ANKUB1
structural_interaction_variant	RNF13
structural_interaction_variant	RNF13
structural_interaction_variant	TSC22D2
structural_interaction_variant	TSC22D2
structural_interaction_variant	EIF2A
structural_interaction_variant	EIF2A
structural_interaction_variant	EIF2A
structural_interaction_variant	SELT
structural_interaction_variant	FAM194A
structural_interaction_variant	FAM194A
structural_interaction_variant	SIAH2
stop_gained	GPR171
structural_interaction_variant	GPR171
structural_interaction_variant	P2RY14
structural_interaction_variant	P2RY14
structural_interaction_variant	GPR87
structural_interaction_variant	GPR87
structural_interaction_variant	GPR87
structural_interaction_variant	P2RY13
structural_interaction_variant	P2RY13
structural_interaction_variant	P2RY13
structural_interaction_variant	P2RY13
structural_interaction_variant	P2RY13
structural_interaction_variant	P2RY12
structural_interaction_variant	MED12L
structural_interaction_variant	IGSF10
structural_interaction_variant	IGSF10
frameshift_variant	IGSF10
frameshift_variant	IGSF10
structural_interaction_variant	IGSF10
frameshift_variant	IGSF10
start_lost	AADACL2

start_lost	AADACL2
structural_interaction_variant	AADACL2
structural_interaction_variant	AADACL2
structural_interaction_variant	AADACL2
structural_interaction_variant	AADACL2
frameshift_variant	AADACL2
structural_interaction_variant	AADAC
structural_interaction_variant	AADAC
structural_interaction_variant	SUCNR1
structural_interaction_variant	SUCNR1
structural_interaction_variant	SUCNR1
structural_interaction_variant	P2RY1
structural_interaction_variant	P2RY1
stop_gained	P2RY1
structural_interaction_variant	ARHGEF26
structural_interaction_variant	ARHGEF26
structural_interaction_variant	DHX36
missense_variant&splice_region_variant	DHX36
structural_interaction_variant	DHX36
structural_interaction_variant	DHX36
structural_interaction_variant	GPR149
structural_interaction_variant	GPR149
structural_interaction_variant	GPR149
structural_interaction_variant	MME
stop_gained	MME
structural_interaction_variant	MME
structural_interaction_variant	PLCH1
structural_interaction_variant	PLCH1
structural_interaction_variant	PLCH1
structural_interaction_variant	PLCH1
structural_interaction_variant	PLCH1
structural_interaction_variant	PLCH1
structural_interaction_variant	C3orf33
structural_interaction_variant	C3orf33
structural_interaction_variant	C3orf33
structural_interaction_variant	GMPS
structural_interaction_variant	KCNAB1
structural_interaction_variant	KCNAB1
structural_interaction_variant	KCNAB1
splice_donor_variant&intron_variant	SSR3
structural_interaction_variant	TIPARP
structural_interaction_variant	TIPARP
structural_interaction_variant	LEKR1
structural_interaction_variant	LEKR1
structural_interaction_variant	LEKR1
frameshift_variant	LEKR1
structural_interaction_variant	PTX3
structural_interaction_variant	PTX3

structural_interaction_variant	PTX3
stop_gained	PTX3
structural_interaction_variant	VEPH1
structural_interaction_variant	SHOX2
structural_interaction_variant	RSRC1
structural_interaction_variant	RSRC1
structural_interaction_variant	MLF1
structural_interaction_variant	GFM1
structural_interaction_variant	GFM1
structural_interaction_variant	GFM1
structural_interaction_variant	GFM1
structural_interaction_variant	MFSD1
structural_interaction_variant	MFSD1
structural_interaction_variant	SCHIP1
structural_interaction_variant	IL12A
structural_interaction_variant	IL12A
structural_interaction_variant	SMC4
structural_interaction_variant	SMC4
missense_variant&splice_region_variant	SMC4
structural_interaction_variant	SMC4
structural_interaction_variant	SMC4
structural_interaction_variant	TRIM59
structural_interaction_variant	TRIM59
structural_interaction_variant	ARL14
structural_interaction_variant	ARL14
structural_interaction_variant	PPM1L
structural_interaction_variant	PPM1L
structural_interaction_variant	PPM1L
structural_interaction_variant	NMD3
structural_interaction_variant	NMD3
structural_interaction_variant	SI
structural_interaction_variant	SI
structural_interaction_variant	SI
structural_interaction_variant	SI
structural_interaction_variant	SI
structural_interaction_variant	BCHE
stop_gained	ZBBX
splice_donor_variant&intron_variant	ZBBX
structural_interaction_variant	ZBBX
structural_interaction_variant	ZBBX
structural_interaction_variant	ZBBX
structural_interaction_variant	SERPINI2
structural_interaction_variant	WDR49
structural_interaction_variant	WDR49
structural_interaction_variant	WDR49
missense_variant&splice_region_variant	WDR49
structural_interaction_variant	WDR49
structural_interaction_variant	WDR49

splice_donor_variant&intron_variant	WDR49
structural_interaction_variant	PDCD10
structural_interaction_variant	SERPINI1
structural_interaction_variant	SERPINI1
structural_interaction_variant	GOLIM4
structural_interaction_variant	GOLIM4
structural_interaction_variant	GOLIM4
structural_interaction_variant	ACTRT3
structural_interaction_variant	MYNN
structural_interaction_variant	LRRC34
structural_interaction_variant	LRRIQ4
structural_interaction_variant	LRRIQ4
structural_interaction_variant	LRRIQ4
stop_gained	LRRIQ4
structural_interaction_variant	LRRC31
structural_interaction_variant	LRRC31
missense_variant&splice_region_variant	SAMD7
structural_interaction_variant	SAMD7
missense_variant&splice_region_variant	SAMD7
structural_interaction_variant	SAMD7
structural_interaction_variant	GPR160
structural_interaction_variant	PHC3
structural_interaction_variant	PHC3
structural_interaction_variant	PRKCI
structural_interaction_variant	SKIL
structural_interaction_variant	SKIL
structural_interaction_variant	SKIL
structural_interaction_variant	SKIL
structural_interaction_variant	SKIL
structural_interaction_variant	SKIL
structural_interaction_variant	CLDN11
frameshift_variant	SLC7A14
frameshift_variant	SLC7A14
structural_interaction_variant	SLC7A14
structural_interaction_variant	SLC7A14
frameshift_variant	RPL22L1
structural_interaction_variant	EIF5A2
missense_variant&splice_region_variant	TNIK
structural_interaction_variant	TNIK
structural_interaction_variant	TNIK
structural_interaction_variant	PLD1
structural_interaction_variant	PLD1
structural_interaction_variant	PLD1
structural_interaction_variant	TMEM212
structural_interaction_variant	TMEM212
structural_interaction_variant	FNDC3B
structural_interaction_variant	FNDC3B
structural_interaction_variant	FNDC3B

structural_interaction_variant	FNDC3B
structural_interaction_variant	FNDC3B
structural_interaction_variant	FNDC3B
structural_interaction_variant	FNDC3B
structural_interaction_variant	FNDC3B
structural_interaction_variant	FNDC3B
stop_gained	GHSR
structural_interaction_variant	TNFSF10
structural_interaction_variant	NCEH1
structural_interaction_variant	NCEH1
frameshift_variant	NCEH1
frameshift_variant	NCEH1
structural_interaction_variant	NCEH1
structural_interaction_variant	ECT2
structural_interaction_variant	ECT2
structural_interaction_variant	ECT2
structural_interaction_variant	ECT2
structural_interaction_variant	ECT2
structural_interaction_variant	ECT2
structural_interaction_variant	ECT2
structural_interaction_variant	ECT2
frameshift_variant	ECT2
structural_interaction_variant	ECT2
structural_interaction_variant	SPATA16
structural_interaction_variant	SPATA16
structural_interaction_variant	SPATA16
structural_interaction_variant	SPATA16
structural_interaction_variant	NAALADL2
structural_interaction_variant	NAALADL2
frameshift_variant	NAALADL2
stop_gained	NAALADL2
structural_interaction_variant	NAALADL2
structural_interaction_variant	NAALADL2
structural_interaction_variant	NAALADL2
structural_interaction_variant	NAALADL2
structural_interaction_variant	NAALADL2
structural_interaction_variant	NAALADL2
structural_interaction_variant	NAALADL2
stop_gained	NAALADL2
stop_gained	NAALADL2
structural_interaction_variant	KCNMB2
structural_interaction_variant	ZMAT3
structural_interaction_variant	PIK3CA
frameshift_variant	KCNMB3
structural_interaction_variant	ZNF639
structural_interaction_variant	ZNF639
structural_interaction_variant	MFN1

structural_interaction_variant	MFN1
structural_interaction_variant	MFN1
structural_interaction_variant	MFN1
structural_interaction_variant	MFN1
structural_interaction_variant	NDUFB5
structural_interaction_variant	USP13
structural_interaction_variant	PEX5L
frameshift_variant	CCDC39
structural_interaction_variant	CCDC39
structural_interaction_variant	ATP11B
structural_interaction_variant	ATP11B
structural_interaction_variant	ATP11B
structural_interaction_variant	ATP11B
stop_gained&splice_region_variant	ATP11B
structural_interaction_variant	ATP11B
structural_interaction_variant	ATP11B
structural_interaction_variant	ATP11B
structural_interaction_variant	ATP11B
structural_interaction_variant	DCUN1D1
structural_interaction_variant	LAMP3
structural_interaction_variant	MCF2L2
structural_interaction_variant	MCF2L2
splice_acceptor_variant&intron_variant	MCF2L2
structural_interaction_variant	MCF2L2
frameshift_variant&splice_region_variant	MCF2L2
structural_interaction_variant	MCF2L2
structural_interaction_variant	MCF2L2
structural_interaction_variant	KLHL6
frameshift_variant	KLHL6
structural_interaction_variant	KLHL6
structural_interaction_variant	KLHL24
structural_interaction_variant	KLHL24
structural_interaction_variant	KLHL24
splice_donor_variant&conservative_inframe_deletion	KLHL24
structural_interaction_variant	KLHL24
structural_interaction_variant	YEATS2
structural_interaction_variant	YEATS2
stop_gained&splice_region_variant	YEATS2
structural_interaction_variant	YEATS2
structural_interaction_variant	YEATS2
structural_interaction_variant	YEATS2
structural_interaction_variant	YEATS2
structural_interaction_variant	YEATS2
structural_interaction_variant	YEATS2
structural_interaction_variant	PARL
structural_interaction_variant	ABCC5
structural_interaction_variant	ABCC5
structural_interaction_variant	HTR3C

structural_interaction_variant	HTR3E
stop_gained	EIF2B5
structural_interaction_variant	DVL3
structural_interaction_variant	ABCF3
structural_interaction_variant	ABCF3
structural_interaction_variant	ABCF3
structural_interaction_variant	VWA5B2
structural_interaction_variant	VWA5B2
stop_gained	VWA5B2
structural_interaction_variant	VWA5B2
structural_interaction_variant	ECE2
structural_interaction_variant	ECE2
structural_interaction_variant	ECE2
structural_interaction_variant	ECE2
structural_interaction_variant	ECE2
structural_interaction_variant	PSMD2
structural_interaction_variant	EIF4G1
structural_interaction_variant	EIF4G1
structural_interaction_variant	EIF4G1
structural_interaction_variant	EIF4G1
structural_interaction_variant	EIF4G1
missense_variant&splice_region_variant	EIF4G1
structural_interaction_variant	EIF4G1
frameshift_variant	FAM131A
structural_interaction_variant	FAM131A
structural_interaction_variant	FAM131A
structural_interaction_variant	CLCN2
structural_interaction_variant	CLCN2
structural_interaction_variant	CLCN2
structural_interaction_variant	CLCN2
stop_gained	CHRD
frameshift_variant	CHRD
structural_interaction_variant	EPHB3
structural_interaction_variant	EPHB3
structural_interaction_variant	EPHB3
structural_interaction_variant	EPHB3
structural_interaction_variant	EPHB3
structural_interaction_variant	EPHB3
structural_interaction_variant	VPS8
structural_interaction_variant	VPS8
structural_interaction_variant	VPS8
structural_interaction_variant	VPS8
structural_interaction_variant	VPS8
structural_interaction_variant	VPS8
structural_interaction_variant	VPS8
structural_interaction_variant	VPS8
structural_interaction_variant	VPS8
structural_interaction_variant	MAP3K13

structural_interaction_variant	MAP3K13
stop_gained	MAP3K13
structural_interaction_variant	SENP2
structural_interaction_variant	SENP2
structural_interaction_variant	SENP2
structural_interaction_variant	IGF2BP2
structural_interaction_variant	DGKG
structural_interaction_variant	DGKG
structural_interaction_variant	DGKG
structural_interaction_variant	DGKG
structural_interaction_variant	DGKG
structural_interaction_variant	DGKG
structural_interaction_variant	CRYGS
structural_interaction_variant	TBCCD1
structural_interaction_variant	AHSG
structural_interaction_variant	AHSG
missense_variant&splice_region_variant	AHSG
missense_variant&splice_region_variant	AHSG
missense_variant&splice_region_variant	AHSG
stop_gained	FETUB
structural_interaction_variant	FETUB
structural_interaction_variant	FETUB
structural_interaction_variant	FETUB
structural_interaction_variant	FETUB
structural_interaction_variant	HRG
frameshift_variant	HRG
structural_interaction_variant	HRG
structural_interaction_variant	KNG1
structural_interaction_variant	KNG1
structural_interaction_variant	KNG1
stop_gained	KNG1
structural_interaction_variant	RFC4
stop_gained	ADIPOQ
structural_interaction_variant	ADIPOQ
structural_interaction_variant	ST6GAL1
structural_interaction_variant	ST6GAL1
structural_interaction_variant	ST6GAL1
frameshift_variant	RTP1
structural_interaction_variant	RTP1
structural_interaction_variant	MASP1
structural_interaction_variant	RTP4
stop_gained	RTP4
structural_interaction_variant	RTP4
structural_interaction_variant	LPP
structural_interaction_variant	LPP
structural_interaction_variant	TPRG1
structural_interaction_variant	TP63
structural_interaction_variant	LEPREL1

structural_interaction_variant	LEPREL1
structural_interaction_variant	LEPREL1
frameshift_variant	TMEM207
structural_interaction_variant	IL1RAP
structural_interaction_variant	IL1RAP
structural_interaction_variant	GMNC
structural_interaction_variant	GMNC
structural_interaction_variant	GMNC
structural_interaction_variant	FGF12
structural_interaction_variant	FGF12
structural_interaction_variant	MB21D2
structural_interaction_variant	ATP13A5
structural_interaction_variant	ATP13A5
structural_interaction_variant	ATP13A5
structural_interaction_variant	ATP13A5
structural_interaction_variant	ATP13A5
structural_interaction_variant	ATP13A5
structural_interaction_variant	ATP13A5
structural_interaction_variant	ATP13A5
missense_variant&splice_region_variant	ATP13A5
missense_variant&splice_region_variant	ATP13A5
structural_interaction_variant	ATP13A5
structural_interaction_variant	ATP13A4
splice_donor_variant&intron_variant	ATP13A4
structural_interaction_variant	ATP13A4
structural_interaction_variant	ATP13A4
structural_interaction_variant	ATP13A4
missense_variant&splice_region_variant	HES1
structural_interaction_variant	HES1
structural_interaction_variant	CPN2
structural_interaction_variant	GP5
structural_interaction_variant	GP5
structural_interaction_variant	GP5
structural_interaction_variant	GP5
structural_interaction_variant	GP5
structural_interaction_variant	TMEM44
structural_interaction_variant	FAM43A
structural_interaction_variant	FAM43A
structural_interaction_variant	XXYLT1
structural_interaction_variant	ACAP2
structural_interaction_variant	MUC20
structural_interaction_variant	MUC4
structural_interaction_variant	MUC4
structural_interaction_variant	MUC4
structural_interaction_variant	MUC4
stop_gained	MUC4
structural_interaction_variant	TNK2
structural_interaction_variant	TNK2

structural_interaction_variant	TNK2
structural_interaction_variant	TNK2
structural_interaction_variant	TFRC
structural_interaction_variant	TFRC
structural_interaction_variant	TFRC
stop_gained	SLC51A
structural_interaction_variant	TM4SF19
structural_interaction_variant	UBXN7
stop_gained	SMCO1
structural_interaction_variant	NRROS
structural_interaction_variant	NRROS
structural_interaction_variant	NRROS
structural_interaction_variant	CEP19
structural_interaction_variant	PAK2
structural_interaction_variant	NCBP2
structural_interaction_variant	NCBP2
structural_interaction_variant	NCBP2
structural_interaction_variant	PIGZ
stop_gained	MFI2
structural_interaction_variant	MFI2
structural_interaction_variant	MFI2
structural_interaction_variant	MFI2
structural_interaction_variant	MFI2
structural_interaction_variant	MFI2
structural_interaction_variant	DLG1
splice_donor_variant&intron_variant	DLG1
structural_interaction_variant	DLG1
structural_interaction_variant	DLG1
structural_interaction_variant	DLG1
structural_interaction_variant	DLG1
frameshift_variant	BDH1
missense_variant&splice_region_variant	BDH1
structural_interaction_variant	KIAA0226
structural_interaction_variant	KIAA0226
structural_interaction_variant	KIAA0226
structural_interaction_variant	KIAA0226
structural_interaction_variant	KIAA0226
structural_interaction_variant	LRCH3
structural_interaction_variant	LRCH3
structural_interaction_variant	LRCH3
structural_interaction_variant	LRCH3
missense_variant&splice_region_variant	LRCH3
structural_interaction_variant	LRCH3
frameshift_variant	IQCG
structural_interaction_variant	LMLN
structural_interaction_variant	LMLN
stop_gained	LMLN
structural_interaction_variant	LMLN

structural_interaction_variant	LMLN
structural_interaction_variant	LMLN
structural_interaction_variant	ZNF732
structural_interaction_variant	ZNF732
structural_interaction_variant	ZNF141
structural_interaction_variant	ZNF141
structural_interaction_variant	ZNF721
structural_interaction_variant	ZNF721
structural_interaction_variant	ZNF721
structural_interaction_variant	ZNF721
stop_gained	PIGG
stop_gained	PDE6B
frameshift_variant&stop_lost	PDE6B
frameshift_variant&splice_region_variant	MYL5
structural_interaction_variant	MFSD7
splice_donor_variant&splice_region_variant&intron_	MFSD7
structural_interaction_variant	PCGF3
structural_interaction_variant	CPLX1
structural_interaction_variant	GAK
structural_interaction_variant	GAK
structural_interaction_variant	GAK
structural_interaction_variant	GAK
structural_interaction_variant	GAK
structural_interaction_variant	GAK
structural_interaction_variant	GAK
structural_interaction_variant	TMEM175
structural_interaction_variant	TMEM175
structural_interaction_variant	TMEM175
structural_interaction_variant	DGKQ
structural_interaction_variant	DGKQ
structural_interaction_variant	DGKQ
structural_interaction_variant	IDUA
structural_interaction_variant	FGFRL1
structural_interaction_variant	RNF212
structural_interaction_variant	RNF212
structural_interaction_variant	SPON2
structural_interaction_variant	SPON2
structural_interaction_variant	CTBP1
stop_gained	UVSSA
frameshift_variant	CRIPAK
structural_interaction_variant	CRIPAK
structural_interaction_variant	CRIPAK
frameshift_variant	CRIPAK
structural_interaction_variant	FAM53A
splice_donor_variant&intron_variant	SLBP
structural_interaction_variant	SLBP
structural_interaction_variant	TACC3
structural_interaction_variant	TACC3

structural_interaction_variant	TACC3
structural_interaction_variant	FGFR3
structural_interaction_variant	FGFR3
missense_variant&splice_region_variant	FGFR3
structural_interaction_variant	LETM1
structural_interaction_variant	LETM1
structural_interaction_variant	LETM1
structural_interaction_variant	WHSC1
structural_interaction_variant	WHSC1
structural_interaction_variant	WHSC1
structural_interaction_variant	WHSC1
structural_interaction_variant	NELFA
structural_interaction_variant	NELFA
structural_interaction_variant	NELFA
structural_interaction_variant	POLN
structural_interaction_variant	POLN
structural_interaction_variant	POLN
structural_interaction_variant	ZFYVE28
structural_interaction_variant	RNF4
structural_interaction_variant	FAM193A
structural_interaction_variant	FAM193A
structural_interaction_variant	FAM193A
structural_interaction_variant	FAM193A
structural_interaction_variant	FAM193A
structural_interaction_variant	FAM193A
structural_interaction_variant	TNIP2
frameshift_variant	TNIP2
structural_interaction_variant	SH3BP2
structural_interaction_variant	SH3BP2
structural_interaction_variant	SH3BP2
structural_interaction_variant	ADD1
structural_interaction_variant	ADD1
structural_interaction_variant	ADD1
structural_interaction_variant	ADD1
structural_interaction_variant	ADD1
structural_interaction_variant	ADD1
structural_interaction_variant	MFSD10
structural_interaction_variant	MFSD10
structural_interaction_variant	MFSD10
structural_interaction_variant	NOP14
missense_variant&splice_region_variant	NOP14
splice_donor_variant&intron_variant	NOP14
structural_interaction_variant	NOP14
structural_interaction_variant	NOP14
structural_interaction_variant	NOP14
structural_interaction_variant	GRK4
structural_interaction_variant	GRK4
structural_interaction_variant	GRK4

stop_gained	GRK4
structural_interaction_variant	GRK4
structural_interaction_variant	GRK4
structural_interaction_variant	GRK4
structural_interaction_variant	GRK4
structural_interaction_variant	GRK4
structural_interaction_variant	HTT
structural_interaction_variant	HTT
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structural_interaction_variant	HTT
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structural_interaction_variant	HTT
structural_interaction_variant	HTT
structural_interaction_variant	HTT
structural_interaction_variant	RGS12
structural_interaction_variant	RGS12
missense_variant&splice_region_variant	RGS12
structural_interaction_variant	RGS12
structural_interaction_variant	RGS12
structural_interaction_variant	RGS12
structural_interaction_variant	HGFAC
structural_interaction_variant	HGFAC
structural_interaction_variant	HGFAC
structural_interaction_variant	ADRA2C
structural_interaction_variant	ADRA2C
conservative_inframe_insertion	ADRA2C
structural_interaction_variant	ADRA2C
structural_interaction_variant	TMEM128
structural_interaction_variant	LYAR
structural_interaction_variant	LYAR
frameshift_variant	ZBTB49
structural_interaction_variant	ZBTB49
structural_interaction_variant	ZBTB49
structural_interaction_variant	ZBTB49
structural_interaction_variant	ZBTB49
frameshift_variant	STX18
structural_interaction_variant	STX18
structural_interaction_variant	STK32B
stop_gained	EVC2
structural_interaction_variant	CRMP1
structural_interaction_variant	C4orf50
structural_interaction_variant	C4orf50
structural_interaction_variant	JAKMIP1
structural_interaction_variant	JAKMIP1
structural_interaction_variant	WFS1

structural_interaction_variant	PPP2R2C
structural_interaction_variant	PPP2R2C
structural_interaction_variant	PPP2R2C
stop_gained	MAN2B2
splice_donor_variant&intron_variant	MAN2B2
structural_interaction_variant	MAN2B2
stop_gained	MAN2B2
structural_interaction_variant	MAN2B2
structural_interaction_variant	MAN2B2
structural_interaction_variant	MAN2B2
structural_interaction_variant	MRFAP1
splice_donor_variant&intron_variant	MRFAP1L1
structural_interaction_variant	BLOC1S4
structural_interaction_variant	BLOC1S4
structural_interaction_variant	BLOC1S4
structural_interaction_variant	KIAA0232
structural_interaction_variant	KIAA0232
structural_interaction_variant	KIAA0232
structural_interaction_variant	KIAA0232
stop_gained	KIAA0232
structural_interaction_variant	TBC1D14
structural_interaction_variant	TBC1D14
structural_interaction_variant	TBC1D14
structural_interaction_variant	TBC1D14
structural_interaction_variant	CCDC96
structural_interaction_variant	CCDC96
structural_interaction_variant	CCDC96
structural_interaction_variant	CCDC96
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structural_interaction_variant	CCDC96
structural_interaction_variant	CCDC96
structural_interaction_variant	CCDC96
structural_interaction_variant	CCDC96
structural_interaction_variant	CCDC96
structural_interaction_variant	GRPEL1
frameshift_variant	GRPEL1
structural_interaction_variant	GRPEL1
structural_interaction_variant	PSAPL1
stop_gained	PSAPL1
stop_gained	SORCS2
structural_interaction_variant	SORCS2
structural_interaction_variant	SORCS2
missense_variant&splice_region_variant	SORCS2
structural_interaction_variant	SORCS2
structural_interaction_variant	SORCS2
structural_interaction_variant	SORCS2
structural_interaction_variant	AFAP1
structural_interaction_variant	ABLIM2

structural_interaction_variant	SH3TC1
frameshift_variant	SH3TC1
structural_interaction_variant	SH3TC1
structural_interaction_variant	SH3TC1
structural_interaction_variant	SH3TC1
structural_interaction_variant	SH3TC1
structural_interaction_variant	SH3TC1
structural_interaction_variant	SH3TC1
structural_interaction_variant	HTRA3
structural_interaction_variant	HTRA3
structural_interaction_variant	HTRA3
structural_interaction_variant	ACOX3
structural_interaction_variant	ACOX3
structural_interaction_variant	ACOX3
structural_interaction_variant	TRMT44
structural_interaction_variant	TRMT44
structural_interaction_variant	TRMT44
structural_interaction_variant	TRMT44
structural_interaction_variant	TRMT44
structural_interaction_variant	TRMT44
structural_interaction_variant	CPZ
structural_interaction_variant	CPZ
structural_interaction_variant	CPZ
structural_interaction_variant	CPZ
structural_interaction_variant	CPZ
structural_interaction_variant	CPZ
structural_interaction_variant	CPZ
structural_interaction_variant	DRD5
structural_interaction_variant	DRD5
structural_interaction_variant	DRD5
structural_interaction_variant	WDR1
structural_interaction_variant	ZNF518B
stop_gained	CLNK
structural_interaction_variant	BOD1L1
structural_interaction_variant	BOD1L1
structural_interaction_variant	BOD1L1
structural_interaction_variant	BOD1L1
structural_interaction_variant	BOD1L1
structural_interaction_variant	BOD1L1
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structural_interaction_variant	BOD1L1
structural_interaction_variant	BOD1L1
structural_interaction_variant	BOD1L1
structural_interaction_variant	BOD1L1
frameshift_variant	BOD1L1
structural_interaction_variant	BOD1L1
structural_interaction_variant	BOD1L1
structural_interaction_variant	BOD1L1

structural_interaction_variant	BOD1L1
structural_interaction_variant	C1QTNF7
structural_interaction_variant	C1QTNF7
structural_interaction_variant	CC2D2A
stop_gained	CC2D2A
structural_interaction_variant	FBXL5
structural_interaction_variant	FBXL5
structural_interaction_variant	BST1
structural_interaction_variant	CD38
structural_interaction_variant	FGFBP1
structural_interaction_variant	FGFBP1
stop_gained	FGFBP2
structural_interaction_variant	FGFBP2
structural_interaction_variant	PROM1
structural_interaction_variant	PROM1
structural_interaction_variant	TAPT1
structural_interaction_variant	LAP3
structural_interaction_variant	LAP3
structural_interaction_variant	FAM184B
structural_interaction_variant	FAM184B
structural_interaction_variant	FAM184B
structural_interaction_variant	FAM184B
structural_interaction_variant	FAM184B
structural_interaction_variant	FAM184B
stop_gained	NCAPG
structural_interaction_variant	NCAPG
stop_gained&splice_region_variant	NCAPG
structural_interaction_variant	NCAPG
missense_variant&splice_region_variant	NCAPG
structural_interaction_variant	LCORL
structural_interaction_variant	LCORL
structural_interaction_variant	LCORL
structural_interaction_variant	LCORL
structural_interaction_variant	LCORL
structural_interaction_variant	SLIT2
structural_interaction_variant	SLIT2
structural_interaction_variant	SLIT2
structural_interaction_variant	SLIT2
structural_interaction_variant	SLIT2
structural_interaction_variant	KCNIP4
structural_interaction_variant	GPR125
structural_interaction_variant	GPR125
structural_interaction_variant	GPR125
splice_acceptor_variant&intron_variant	GPR125
structural_interaction_variant	GBA3
structural_interaction_variant	GBA3
disruptive_inframe_deletion	GBA3
structural_interaction_variant	GBA3

structural_interaction_variant	GBA3
structural_interaction_variant	GBA3
structural_interaction_variant	PPARGC1A
structural_interaction_variant	PPARGC1A
structural_interaction_variant	DHX15
structural_interaction_variant	CCDC149
structural_interaction_variant	SEPSECS
structural_interaction_variant	PI4K2B
structural_interaction_variant	PI4K2B
structural_interaction_variant	PI4K2B
structural_interaction_variant	PI4K2B
structural_interaction_variant	ZCCHC4
structural_interaction_variant	ZCCHC4
structural_interaction_variant	ZCCHC4
structural_interaction_variant	ANAPC4
structural_interaction_variant	ANAPC4
structural_interaction_variant	ANAPC4
structural_interaction_variant	SEL1L3
splice_donor_variant&intron_variant	SEL1L3
structural_interaction_variant	SEL1L3
structural_interaction_variant	SEL1L3
structural_interaction_variant	SEL1L3
stop_gained	SEL1L3
structural_interaction_variant	SMIM20
structural_interaction_variant	CCKAR
structural_interaction_variant	CCKAR
structural_interaction_variant	TBC1D19
missense_variant&splice_region_variant	TBC1D19
structural_interaction_variant	STIM2
structural_interaction_variant	STIM2
structural_interaction_variant	PCDH7
structural_interaction_variant	PCDH7
structural_interaction_variant	ARAP2
structural_interaction_variant	ARAP2
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structural_interaction_variant	ARAP2
structural_interaction_variant	ARAP2
structural_interaction_variant	ARAP2
structural_interaction_variant	ARAP2
structural_interaction_variant	ARAP2
structural_interaction_variant	DTHD1
structural_interaction_variant	DTHD1
structural_interaction_variant	DTHD1
structural_interaction_variant	DTHD1
structural_interaction_variant	KIAA1239
stop_gained	KIAA1239
structural_interaction_variant	KIAA1239

structural_interaction_variant	KIAA1239
disruptive_inframe_deletion	C4orf19
structural_interaction_variant	C4orf19
structural_interaction_variant	PGM2
stop_gained	PGM2
structural_interaction_variant	TBC1D1
structural_interaction_variant	TLR10
stop_gained	TLR10
structural_interaction_variant	TLR1
structural_interaction_variant	TLR1
structural_interaction_variant	TLR1
structural_interaction_variant	TLR1
structural_interaction_variant	TLR1
stop_gained	TLR1
stop_gained	TLR1
structural_interaction_variant	TLR1
structural_interaction_variant	TLR1
structural_interaction_variant	TLR1
structural_interaction_variant	TLR6
structural_interaction_variant	TLR6
structural_interaction_variant	FAM114A1
missense_variant&splice_region_variant	FAM114A1
structural_interaction_variant	FAM114A1
structural_interaction_variant	FAM114A1
structural_interaction_variant	FAM114A1
frameshift_variant	TMEM156
structural_interaction_variant	TMEM156
structural_interaction_variant	KLHL5
structural_interaction_variant	WDR19
structural_interaction_variant	RFC1
structural_interaction_variant	RFC1
structural_interaction_variant	RFC1
structural_interaction_variant	RFC1
structural_interaction_variant	RFC1
structural_interaction_variant	RFC1
structural_interaction_variant	RFC1
structural_interaction_variant	RFC1
structural_interaction_variant	KLB
structural_interaction_variant	KLB
structural_interaction_variant	KLB
frameshift_variant	KLB
structural_interaction_variant	KLB
frameshift_variant	LIAS
frameshift_variant	UGDH
structural_interaction_variant	SMIM14
structural_interaction_variant	PDS5A
structural_interaction_variant	PDS5A
structural_interaction_variant	N4BP2

structural_interaction_variant	N4BP2
stop_gained	N4BP2
splice_donor_variant&intron_variant	N4BP2
structural_interaction_variant	N4BP2
structural_interaction_variant	N4BP2
stop_gained	CHRNA9
structural_interaction_variant	RBM47
structural_interaction_variant	RBM47
structural_interaction_variant	RBM47
structural_interaction_variant	RBM47
structural_interaction_variant	RBM47
structural_interaction_variant	RBM47
structural_interaction_variant	RBM47
structural_interaction_variant	RBM47
structural_interaction_variant	NSUN7
stop_gained	NSUN7
structural_interaction_variant	APBB2
structural_interaction_variant	APBB2
structural_interaction_variant	APBB2
structural_interaction_variant	APBB2
structural_interaction_variant	LIMCH1
structural_interaction_variant	LIMCH1
structural_interaction_variant	LIMCH1
structural_interaction_variant	LIMCH1
structural_interaction_variant	LIMCH1
structural_interaction_variant	TMEM33
structural_interaction_variant	TMEM33
structural_interaction_variant	TMEM33
missense_variant&splice_region_variant	SLC30A9
structural_interaction_variant	BEND4
structural_interaction_variant	SHISA3
structural_interaction_variant	SHISA3
structural_interaction_variant	ATP8A1
structural_interaction_variant	ATP8A1
structural_interaction_variant	ATP8A1
structural_interaction_variant	ATP8A1
structural_interaction_variant	ATP8A1
structural_interaction_variant	ATP8A1
stop_gained	ATP8A1
stop_gained	GRXCR1
structural_interaction_variant	KCTD8
splice_donor_variant&intron_variant	YIPF7
structural_interaction_variant	GUF1
structural_interaction_variant	GUF1
frameshift_variant	GUF1
structural_interaction_variant	GUF1
structural_interaction_variant	GUF1
structural_interaction_variant	GUF1

structural_interaction_variant	GUF1
frameshift_variant	GUF1
frameshift_variant	GUF1
structural_interaction_variant	GNPDA2
structural_interaction_variant	GABRA2
structural_interaction_variant	GABRA2
structural_interaction_variant	COX7B2
structural_interaction_variant	COX7B2
structural_interaction_variant	COX7B2
structural_interaction_variant	GABRA4
stop_gained	GABRB1
structural_interaction_variant	ATP10D
structural_interaction_variant	ATP10D
structural_interaction_variant	ATP10D
structural_interaction_variant	ATP10D
structural_interaction_variant	ATP10D
structural_interaction_variant	ATP10D
structural_interaction_variant	ATP10D
frameshift_variant	ATP10D
structural_interaction_variant	ATP10D
structural_interaction_variant	ATP10D
stop_gained	CORIN
stop_gained	CORIN
structural_interaction_variant	CORIN
structural_interaction_variant	CORIN
structural_interaction_variant	CORIN
structural_interaction_variant	CORIN
structural_interaction_variant	NFXL1
structural_interaction_variant	NFXL1
structural_interaction_variant	TXK
structural_interaction_variant	TEC
structural_interaction_variant	TEC
structural_interaction_variant	TEC
structural_interaction_variant	SLAIN2
structural_interaction_variant	SLAIN2
structural_interaction_variant	SLC10A4
structural_interaction_variant	SLC10A4
structural_interaction_variant	SLC10A4
structural_interaction_variant	SLC10A4
structural_interaction_variant	FRYL
structural_interaction_variant	FRYL
structural_interaction_variant	FRYL
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structural_interaction_variant	FRYL
structural_interaction_variant	FRYL
structural_interaction_variant	FRYL
structural_interaction_variant	OCIAD2
stop_gained	CWH43
structural_interaction_variant	CWH43
structural_interaction_variant	CWH43
structural_interaction_variant	DCUN1D4
structural_interaction_variant	DCUN1D4
frameshift_variant	LRRC66
frameshift_variant&stop_gained	LRRC66
structural_interaction_variant	LRRC66
structural_interaction_variant	LRRC66
structural_interaction_variant	LRRC66
structural_interaction_variant	LRRC66
stop_gained	SGCB
structural_interaction_variant	SPATA18
structural_interaction_variant	SPATA18
structural_interaction_variant	SPATA18
structural_interaction_variant	SPATA18
structural_interaction_variant	USP46
structural_interaction_variant	RASL11B
structural_interaction_variant	RASL11B
structural_interaction_variant	SCFD2
structural_interaction_variant	SCFD2
structural_interaction_variant	SCFD2
structural_interaction_variant	SCFD2
structural_interaction_variant	SCFD2
structural_interaction_variant	SCFD2
structural_interaction_variant	SCFD2
structural_interaction_variant	FIP1L1
structural_interaction_variant	LNX1
structural_interaction_variant	LNX1
structural_interaction_variant	LNX1
structural_interaction_variant	LNX1
structural_interaction_variant	LNX1
structural_interaction_variant	LNX1
structural_interaction_variant	GSX2
structural_interaction_variant	GSX2
structural_interaction_variant	GSX2
structural_interaction_variant	PDGFRA
structural_interaction_variant	PDGFRA
structural_interaction_variant	PDGFRA

structural_interaction_variant	PDGFRA
structural_interaction_variant	KDR
structural_interaction_variant	KDR
structural_interaction_variant	KDR
structural_interaction_variant	KDR
structural_interaction_variant	KDR
missense_variant&splice_region_variant	KDR
structural_interaction_variant	KDR
structural_interaction_variant	TMEM165
structural_interaction_variant	CLOCK
structural_interaction_variant	CLOCK
structural_interaction_variant	CLOCK
structural_interaction_variant	EXOC1
stop_gained	CEP135
frameshift_variant	CEP135
structural_interaction_variant	CEP135
structural_interaction_variant	KIAA1211
structural_interaction_variant	KIAA1211
structural_interaction_variant	KIAA1211
structural_interaction_variant	KIAA1211
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structural_interaction_variant	KIAA1211
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structural_interaction_variant	KIAA1211
structural_interaction_variant	KIAA1211
structural_interaction_variant	KIAA1211
structural_interaction_variant	KIAA1211
structural_interaction_variant	AASDH
structural_interaction_variant	AASDH
structural_interaction_variant	AASDH
structural_interaction_variant	AASDH
structural_interaction_variant	AASDH
structural_interaction_variant	AASDH
missense_variant&splice_region_variant	AASDH
structural_interaction_variant	AASDH
structural_interaction_variant	PPAT
missense_variant&splice_region_variant	HOPX
conservative_inframe_deletion	HOPX
structural_interaction_variant	SPINK2
frameshift_variant	REST
structural_interaction_variant	NOA1
structural_interaction_variant	NOA1
structural_interaction_variant	NOA1
structural_interaction_variant	NOA1
structural_interaction_variant	POLR2B
structural_interaction_variant	IGFBP7
structural_interaction_variant	LPHN3
structural_interaction_variant	LPHN3

structural_interaction_variant	LPHN3
structural_interaction_variant	LPHN3
structural_interaction_variant	LPHN3
structural_interaction_variant	LPHN3
structural_interaction_variant	LPHN3
structural_interaction_variant	LPHN3
structural_interaction_variant	LPHN3
structural_interaction_variant	LPHN3
missense_variant&splice_region_variant	EPHA5
structural_interaction_variant	CENPC
structural_interaction_variant	STAP1
structural_interaction_variant	STAP1
structural_interaction_variant	UBA6
missense_variant&splice_region_variant	UBA6
structural_interaction_variant	UBA6
structural_interaction_variant	TMPRSS11D
structural_interaction_variant	TMPRSS11D
structural_interaction_variant	TMPRSS11A
structural_interaction_variant	TMPRSS11A
structural_interaction_variant	TMPRSS11A
structural_interaction_variant	TMPRSS11A
structural_interaction_variant	TMPRSS11A
structural_interaction_variant	TMPRSS11F
structural_interaction_variant	TMPRSS11B
structural_interaction_variant	TMPRSS11B
structural_interaction_variant	TMPRSS11B
structural_interaction_variant	TMPRSS11B
structural_interaction_variant	TMPRSS11B
structural_interaction_variant	UGT2B15
structural_interaction_variant	UGT2A3
structural_interaction_variant	UGT2A3
structural_interaction_variant	UGT2A3
frameshift_variant	UGT2A1
structural_interaction_variant	UGT2A1
structural_interaction_variant	UGT2A1
structural_interaction_variant	SULT1B1
missense_variant&splice_region_variant	CSN1S1
structural_interaction_variant	CSN3
structural_interaction_variant	CABS1
frameshift_variant	CABS1
structural_interaction_variant	CABS1
structural_interaction_variant	PROL1
stop_gained	MUC7
structural_interaction_variant	MUC7
structural_interaction_variant	MUC7
structural_interaction_variant	MUC7
structural_interaction_variant	MUC7
structural_interaction_variant	AMTN

structural_interaction_variant	AMBN
stop_gained	AMBN
stop_gained	ENAM
structural_interaction_variant	IGJ
structural_interaction_variant	IGJ
structural_interaction_variant	UTP3
structural_interaction_variant	UTP3
structural_interaction_variant	RUFY3
structural_interaction_variant	RUFY3
stop_gained	RUFY3
structural_interaction_variant	GRSF1
frameshift_variant	GRSF1
structural_interaction_variant	MOB1B
structural_interaction_variant	MOB1B
structural_interaction_variant	DCK
structural_interaction_variant	SLC4A4
missense_variant&splice_region_variant	NPFFR2
structural_interaction_variant	NPFFR2
structural_interaction_variant	NPFFR2
structural_interaction_variant	NPFFR2
structural_interaction_variant	NPFFR2
structural_interaction_variant	COX18
stop_gained	COX18
structural_interaction_variant	ANKRD17
structural_interaction_variant	ANKRD17
structural_interaction_variant	ANKRD17
structural_interaction_variant	ANKRD17
structural_interaction_variant	ANKRD17
structural_interaction_variant	ANKRD17
structural_interaction_variant	ANKRD17
structural_interaction_variant	ANKRD17
stop_gained	ALB
structural_interaction_variant	AFP
structural_interaction_variant	AFP
structural_interaction_variant	AFP
structural_interaction_variant	AFP
structural_interaction_variant	AFP
frameshift_variant	AFM
structural_interaction_variant	AFM
structural_interaction_variant	AFM
stop_gained	AFM
structural_interaction_variant	AFM
structural_interaction_variant	RASSF6
structural_interaction_variant	IL8
missense_variant&splice_region_variant	IL8
structural_interaction_variant	CXCL6
structural_interaction_variant	CXCL6
structural_interaction_variant	CXCL6

splice_donor_variant&intron_variant	CXCL6
structural_interaction_variant	CXCL1
structural_interaction_variant	CXCL1
structural_interaction_variant	CXCL1
start_lost	PPBP
splice_donor_variant&intron_variant	CXCL5
structural_interaction_variant	CXCL5
structural_interaction_variant	CXCL3
stop_gained	CXCL3
structural_interaction_variant	CXCL3
frameshift_variant	CXCL3
structural_interaction_variant	CXCL3
structural_interaction_variant	MTHFD2L
structural_interaction_variant	EPGN
structural_interaction_variant	EREG
structural_interaction_variant	EREG
structural_interaction_variant	BTC
structural_interaction_variant	PARM1
structural_interaction_variant	PARM1
structural_interaction_variant	THAP6
stop_gained	C4orf26
structural_interaction_variant	CDKL2
structural_interaction_variant	CDKL2
structural_interaction_variant	CDKL2
structural_interaction_variant	PPEF2
structural_interaction_variant	PPEF2
stop_gained	PPEF2
structural_interaction_variant	PPEF2
structural_interaction_variant	PPEF2
structural_interaction_variant	PPEF2
structural_interaction_variant	PPEF2
structural_interaction_variant	PPEF2
structural_interaction_variant	PPEF2
structural_interaction_variant	NAAA
stop_gained	SDAD1
missense_variant&splice_region_variant	SDAD1
structural_interaction_variant	CXCL9
splice_acceptor_variant&intron_variant	CXCL11
structural_interaction_variant	ART3
structural_interaction_variant	ART3
structural_interaction_variant	NUP54
structural_interaction_variant	NUP54
structural_interaction_variant	NUP54
structural_interaction_variant	NUP54
structural_interaction_variant	FAM47E-STBD1
structural_interaction_variant	FAM47E-STBD1
structural_interaction_variant	FAM47E-STBD1
stop_gained	CCDC158

structural_interaction_variant	CCDC158
structural_interaction_variant	CCDC158
structural_interaction_variant	CCDC158
structural_interaction_variant	CCDC158
structural_interaction_variant	CCDC158
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structural_interaction_variant	CCDC158
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structural_interaction_variant	CCDC158
structural_interaction_variant	CCDC158
structural_interaction_variant	SHROOM3
structural_interaction_variant	SHROOM3
structural_interaction_variant	SHROOM3
structural_interaction_variant	SOWAHB
structural_interaction_variant	SOWAHB
structural_interaction_variant	SOWAHB
structural_interaction_variant	SOWAHB
structural_interaction_variant	SEPT11
structural_interaction_variant	CCNI
structural_interaction_variant	CCNG2
structural_interaction_variant	CXCL13
structural_interaction_variant	CNOT6L
structural_interaction_variant	FRAS1
stop_gained	FRAS1
stop_gained	FRAS1
stop_gained	ANXA3
structural_interaction_variant	ANXA3
structural_interaction_variant	ANXA3
splice_donor_variant&intron_variant	ANXA3
structural_interaction_variant	BMP2K
structural_interaction_variant	BMP2K
structural_interaction_variant	BMP2K
structural_interaction_variant	BMP2K
structural_interaction_variant	BMP2K
structural_interaction_variant	BMP2K
structural_interaction_variant	NAA11
stop_gained	NAA11
structural_interaction_variant	GK2
frameshift_variant	GK2
structural_interaction_variant	GK2
structural_interaction_variant	ANTXR2
structural_interaction_variant	PRDM8
structural_interaction_variant	BMP3
structural_interaction_variant	BMP3
structural_interaction_variant	SCD5
stop_gained	SCD5

structural_interaction_variant	SEC31A
structural_interaction_variant	SEC31A
structural_interaction_variant	SEC31A
structural_interaction_variant	SEC31A
structural_interaction_variant	SEC31A
structural_interaction_variant	SEC31A
structural_interaction_variant	SEC31A
missense_variant&splice_region_variant	SEC31A
structural_interaction_variant	SEC31A
structural_interaction_variant	SEC31A
structural_interaction_variant	SEC31A
start_lost&conservative_inframe_deletion	THAP9
structural_interaction_variant	THAP9
structural_interaction_variant	THAP9
structural_interaction_variant	THAP9
structural_interaction_variant	THAP9
structural_interaction_variant	THAP9
structural_interaction_variant	LIN54
structural_interaction_variant	COPS4
missense_variant&splice_region_variant	HPSE
structural_interaction_variant	HPSE
structural_interaction_variant	HELQ
structural_interaction_variant	HELQ
frameshift_variant	HELQ
structural_interaction_variant	HELQ
structural_interaction_variant	MRPS18C
frameshift_variant	FAM175A
splice_donor_variant&intron_variant	FAM175A
structural_interaction_variant	NKX6-1
structural_interaction_variant	CDS1
structural_interaction_variant	CDS1
structural_interaction_variant	WDFY3
structural_interaction_variant	WDFY3
structural_interaction_variant	WDFY3
structural_interaction_variant	WDFY3
disruptive_inframe_deletion	WDFY3
structural_interaction_variant	WDFY3
structural_interaction_variant	WDFY3
structural_interaction_variant	WDFY3
structural_interaction_variant	WDFY3
structural_interaction_variant	WDFY3
structural_interaction_variant	ARHGAP24
structural_interaction_variant	ARHGAP24
structural_interaction_variant	ARHGAP24
structural_interaction_variant	ARHGAP24
structural_interaction_variant	ARHGAP24
missense_variant&splice_region_variant	MAPK10
structural_interaction_variant	PTPN13

structural_interaction_variant	PTPN13
structural_interaction_variant	PTPN13
structural_interaction_variant	PTPN13
structural_interaction_variant	PTPN13
structural_interaction_variant	PTPN13
structural_interaction_variant	PTPN13
structural_interaction_variant	SLC10A6
structural_interaction_variant	SLC10A6
structural_interaction_variant	C4orf36
structural_interaction_variant	C4orf36
structural_interaction_variant	AFF1
structural_interaction_variant	AFF1
structural_interaction_variant	AFF1
structural_interaction_variant	AFF1
structural_interaction_variant	KLHL8
splice_donor_variant&intron_variant	HSD17B13
structural_interaction_variant	HSD17B13
structural_interaction_variant	HSD17B11
structural_interaction_variant	HSD17B11
structural_interaction_variant	NUDT9
structural_interaction_variant	SPARCL1
structural_interaction_variant	SPARCL1
structural_interaction_variant	SPARCL1
structural_interaction_variant	SPARCL1
structural_interaction_variant	SPARCL1
structural_interaction_variant	DSPP
structural_interaction_variant	DSPP
structural_interaction_variant	DMP1
structural_interaction_variant	IBSP
structural_interaction_variant	IBSP
structural_interaction_variant	MEPE
stop_gained	SPP1
structural_interaction_variant	PKD2
structural_interaction_variant	ABCG2
structural_interaction_variant	PPM1K
structural_interaction_variant	HERC6
missense_variant&splice_region_variant	HERC6
structural_interaction_variant	HERC6
structural_interaction_variant	HERC6
structural_interaction_variant	HERC6
splice_donor_variant&intron_variant	HERC5
structural_interaction_variant	HERC3
structural_interaction_variant	FAM13A
structural_interaction_variant	FAM13A
structural_interaction_variant	FAM13A
structural_interaction_variant	TIGD2
structural_interaction_variant	TIGD2
structural_interaction_variant	TIGD2

structural_interaction_variant	GPRIN3
structural_interaction_variant	GPRIN3
structural_interaction_variant	GPRIN3
structural_interaction_variant	GPRIN3
structural_interaction_variant	MMRN1
structural_interaction_variant	MMRN1
structural_interaction_variant	MMRN1
structural_interaction_variant	MMRN1
structural_interaction_variant	MMRN1
structural_interaction_variant	MMRN1
stop_gained	MMRN1
structural_interaction_variant	MMRN1
structural_interaction_variant	CCSER1
structural_interaction_variant	GRID2
structural_interaction_variant	GRID2
structural_interaction_variant	ATOH1
structural_interaction_variant	ATOH1
structural_interaction_variant	ATOH1
structural_interaction_variant	ATOH1
structural_interaction_variant	HPGDS
structural_interaction_variant	HPGDS
structural_interaction_variant	PDLIM5
structural_interaction_variant	PDLIM5
structural_interaction_variant	PDLIM5
structural_interaction_variant	PDLIM5
structural_interaction_variant	PDLIM5
structural_interaction_variant	PDLIM5
structural_interaction_variant	PDLIM5
structural_interaction_variant	BMPR1B
structural_interaction_variant	UNC5C
structural_interaction_variant	UNC5C
structural_interaction_variant	UNC5C
structural_interaction_variant	UNC5C
structural_interaction_variant	UNC5C
structural_interaction_variant	UNC5C
start_lost	PDHA2
structural_interaction_variant	PDHA2
stop_gained	PDHA2
structural_interaction_variant	PDHA2
structural_interaction_variant	PDHA2
structural_interaction_variant	PDHA2
structural_interaction_variant	STPG2
structural_interaction_variant	RAP1GDS1
missense_variant&splice_region_variant	RAP1GDS1
structural_interaction_variant	TSPAN5
structural_interaction_variant	METAP1
frameshift_variant	ADH5
structural_interaction_variant	ADH4

structural_interaction_variant	ADH4
structural_interaction_variant	ADH4
structural_interaction_variant	ADH6
structural_interaction_variant	ADH1A
structural_interaction_variant	ADH1A
structural_interaction_variant	ADH1B
structural_interaction_variant	ADH1B
structural_interaction_variant	ADH1B
structural_interaction_variant	ADH1C
structural_interaction_variant	ADH1C
frameshift_variant	ADH7
structural_interaction_variant	ADH7
structural_interaction_variant	ADH7
structural_interaction_variant	ADH7
structural_interaction_variant	ADH7
splice_donor_variant&intron_variant	ADH7
structural_interaction_variant	ADH7
structural_interaction_variant	ADH7
structural_interaction_variant	C4orf17
structural_interaction_variant	C4orf17
stop_gained	TRMT10A
structural_interaction_variant	MTTP
frameshift_variant	DAPP1
structural_interaction_variant	DAPP1
structural_interaction_variant	EMCN
splice_donor_variant&intron_variant	EMCN
structural_interaction_variant	PPP3CA
structural_interaction_variant	BANK1
structural_interaction_variant	BANK1
structural_interaction_variant	BANK1
structural_interaction_variant	BANK1
structural_interaction_variant	BANK1
structural_interaction_variant	SLC39A8
structural_interaction_variant	MANBA
structural_interaction_variant	CISD2
structural_interaction_variant	CISD2
structural_interaction_variant	SLC9B2
structural_interaction_variant	SLC9B2
structural_interaction_variant	SLC9B2
structural_interaction_variant	SLC9B2
missense_variant&splice_region_variant	SLC9B2
structural_interaction_variant	SLC9B2
structural_interaction_variant	SLC9B2
structural_interaction_variant	SLC9B2
structural_interaction_variant	CENPE
structural_interaction_variant	CENPE
structural_interaction_variant	CENPE
structural_interaction_variant	CENPE

structural_interaction_variant	CENPE
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structural_interaction_variant	CENPE
splice_donor_variant&intron_variant	CENPE
structural_interaction_variant	CENPE
structural_interaction_variant	CENPE
structural_interaction_variant	CENPE
missense_variant&splice_region_variant	CENPE
missense_variant&splice_region_variant	CENPE
disruptive_inframe_insertion	CXXC4
structural_interaction_variant	CXXC4
structural_interaction_variant	TET2
structural_interaction_variant	TET2
structural_interaction_variant	TET2
structural_interaction_variant	TET2
stop_gained	TET2
structural_interaction_variant	PPA2
structural_interaction_variant	ARHGEF38
structural_interaction_variant	ARHGEF38
stop_gained	ARHGEF38
structural_interaction_variant	ARHGEF38
stop_gained	ARHGEF38
structural_interaction_variant	ARHGEF38
structural_interaction_variant	ARHGEF38
structural_interaction_variant	GSTCD
missense_variant&splice_region_variant	GSTCD
structural_interaction_variant	GSTCD
structural_interaction_variant	GSTCD
structural_interaction_variant	NPNT
structural_interaction_variant	NPNT
structural_interaction_variant	NPNT
structural_interaction_variant	NPNT
splice_acceptor_variant&intron_variant	NPNT
structural_interaction_variant	NPNT
structural_interaction_variant	SGMS2
structural_interaction_variant	SGMS2
structural_interaction_variant	CYP2U1
structural_interaction_variant	CYP2U1
structural_interaction_variant	OSTC
structural_interaction_variant	OSTC
structural_interaction_variant	SEC24B
missense_variant&splice_region_variant	SEC24B
structural_interaction_variant	SEC24B
structural_interaction_variant	SEC24B
structural_interaction_variant	SEC24B
structural_interaction_variant	PLA2G12A
structural_interaction_variant	CFI
frameshift_variant	CFI

frameshift_variant	CFI
structural_interaction_variant	CFI
structural_interaction_variant	CFI
stop_gained	CFI
structural_interaction_variant	GAR1
structural_interaction_variant	RRH
structural_interaction_variant	RRH
structural_interaction_variant	EGF
structural_interaction_variant	EGF
structural_interaction_variant	EGF
structural_interaction_variant	EGF
structural_interaction_variant	ENPEP
structural_interaction_variant	PITX2
structural_interaction_variant	C4orf32
structural_interaction_variant	AP1AR
structural_interaction_variant	TIFA
structural_interaction_variant	ALPK1
structural_interaction_variant	ALPK1
structural_interaction_variant	ALPK1
stop_gained	ALPK1
structural_interaction_variant	ALPK1
structural_interaction_variant	ALPK1
structural_interaction_variant	ALPK1
disruptive_inframe_deletion	ALPK1
structural_interaction_variant	NEUROG2
structural_interaction_variant	C4orf21
structural_interaction_variant	C4orf21
frameshift_variant	C4orf21
frameshift_variant	C4orf21
structural_interaction_variant	C4orf21
structural_interaction_variant	C4orf21
structural_interaction_variant	C4orf21
frameshift_variant	LARP7
structural_interaction_variant	ANK2
structural_interaction_variant	ANK2
missense_variant&splice_region_variant	ANK2
structural_interaction_variant	ANK2
structural_interaction_variant	ANK2
structural_interaction_variant	ANK2
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structural_interaction_variant	ANK2
structural_interaction_variant	ANK2
structural_interaction_variant	ANK2
frameshift_variant	ANK2
structural_interaction_variant	CAMK2D
structural_interaction_variant	ARSJ
structural_interaction_variant	UGT8
structural_interaction_variant	UGT8
structural_interaction_variant	NDST4
structural_interaction_variant	NDST4
structural_interaction_variant	NDST4
structural_interaction_variant	TRAM1L1
structural_interaction_variant	TRAM1L1
structural_interaction_variant	TRAM1L1
structural_interaction_variant	TRAM1L1
structural_interaction_variant	NDST3
structural_interaction_variant	NDST3
structural_interaction_variant	NDST3
structural_interaction_variant	NDST3
missense_variant&splice_region_variant	PRSS12
structural_interaction_variant	PRSS12
structural_interaction_variant	METTL14
structural_interaction_variant	METTL14
structural_interaction_variant	SEC24D
structural_interaction_variant	SYNPO2
structural_interaction_variant	SYNPO2
structural_interaction_variant	SYNPO2
frameshift_variant	MYOZ2
structural_interaction_variant	MYOZ2
structural_interaction_variant	USP53
structural_interaction_variant	USP53
missense_variant&splice_region_variant	USP53
structural_interaction_variant	USP53
structural_interaction_variant	USP53
structural_interaction_variant	USP53
structural_interaction_variant	USP53
structural_interaction_variant	USP53
structural_interaction_variant	USP53
stop_gained	C4orf3
structural_interaction_variant	PDE5A
structural_interaction_variant	PDE5A
stop_gained	PRDM5
structural_interaction_variant	NDNF
structural_interaction_variant	TNIP3

structural_interaction_variant	QRFPR
structural_interaction_variant	QRFPR
structural_interaction_variant	ANXA5
structural_interaction_variant	ANXA5
structural_interaction_variant	EXOSC9
structural_interaction_variant	BBS7
structural_interaction_variant	TRPC3
structural_interaction_variant	TRPC3
frameshift_variant	KIAA1109
stop_gained	KIAA1109
structural_interaction_variant	KIAA1109
structural_interaction_variant	ADAD1
structural_interaction_variant	ADAD1
structural_interaction_variant	IL21
structural_interaction_variant	BBS12
structural_interaction_variant	BBS12
structural_interaction_variant	BBS12
structural_interaction_variant	FGF2
stop_gained	NUDT6
stop_gained	SPATA5
structural_interaction_variant	SPATA5
structural_interaction_variant	SPRY1
structural_interaction_variant	SPRY1
structural_interaction_variant	SPRY1
structural_interaction_variant	SPRY1
structural_interaction_variant	SPRY1
structural_interaction_variant	ANKRD50
structural_interaction_variant	ANKRD50
structural_interaction_variant	ANKRD50
structural_interaction_variant	ANKRD50
structural_interaction_variant	ANKRD50
structural_interaction_variant	ANKRD50
structural_interaction_variant	FAT4
structural_interaction_variant	FAT4
structural_interaction_variant	FAT4
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structural_interaction_variant	FAT4
structural_interaction_variant	FAT4
structural_interaction_variant	FAT4
structural_interaction_variant	FAT4
structural_interaction_variant	INTU

frameshift_variant&splice_region_variant	SLC25A31
stop_gained	SLC25A31
structural_interaction_variant	SLC25A31
splice_donor_variant&intron_variant	HSPA4L
structural_interaction_variant	PLK4
structural_interaction_variant	PLK4
splice_donor_variant&intron_variant	C4orf29
structural_interaction_variant	C4orf29
stop_gained	C4orf29
frameshift_variant	C4orf29
structural_interaction_variant	LARP1B
frameshift_variant	LARP1B
structural_interaction_variant	LARP1B
stop_gained	LARP1B
missense_variant&splice_region_variant	PGRMC2
structural_interaction_variant	JADE1
structural_interaction_variant	JADE1
structural_interaction_variant	JADE1
structural_interaction_variant	JADE1
structural_interaction_variant	JADE1
structural_interaction_variant	SCLT1
structural_interaction_variant	PCDH10
structural_interaction_variant	PCDH18
structural_interaction_variant	PCDH18
structural_interaction_variant	PCDH18
structural_interaction_variant	PCDH18
structural_interaction_variant	PCDH18
structural_interaction_variant	CCRN4L
structural_interaction_variant	ELF2
structural_interaction_variant	ELF2
structural_interaction_variant	RAB33B
structural_interaction_variant	SETD7
structural_interaction_variant	MGST2
structural_interaction_variant	MGST2
structural_interaction_variant	MAML3
structural_interaction_variant	MAML3
structural_interaction_variant	MAML3
frameshift_variant	MAML3
frameshift_variant	MAML3
frameshift_variant	MAML3
structural_interaction_variant	MAML3
structural_interaction_variant	MAML3
structural_interaction_variant	CLGN
structural_interaction_variant	CLGN
structural_interaction_variant	CLGN
structural_interaction_variant	CLGN
structural_interaction_variant	CLGN
structural_interaction_variant	CLGN

structural_interaction_variant	ELMOD2
structural_interaction_variant	ELMOD2
structural_interaction_variant	TBC1D9
structural_interaction_variant	TBC1D9
structural_interaction_variant	TBC1D9
structural_interaction_variant	ZNF330
structural_interaction_variant	IL15
structural_interaction_variant	IL15
structural_interaction_variant	INPP4B
structural_interaction_variant	INPP4B
structural_interaction_variant	INPP4B
structural_interaction_variant	INPP4B
structural_interaction_variant	INPP4B
structural_interaction_variant	INPP4B
structural_interaction_variant	USP38
structural_interaction_variant	USP38
structural_interaction_variant	GAB1
structural_interaction_variant	GAB1
structural_interaction_variant	GAB1
structural_interaction_variant	GAB1
structural_interaction_variant	GAB1
structural_interaction_variant	GAB1
structural_interaction_variant	GAB1
stop_gained	SMARCA5
structural_interaction_variant	SMARCA5
structural_interaction_variant	FREM3
structural_interaction_variant	FREM3
structural_interaction_variant	FREM3
structural_interaction_variant	FREM3
structural_interaction_variant	FREM3
structural_interaction_variant	FREM3
structural_interaction_variant	FREM3
structural_interaction_variant	FREM3
stop_gained	FREM3
structural_interaction_variant	FREM3
structural_interaction_variant	FREM3
structural_interaction_variant	FREM3
structural_interaction_variant	FREM3
frameshift_variant	GYPB
structural_interaction_variant	GYPB
structural_interaction_variant	HHIP
missense_variant&splice_region_variant	HHIP
structural_interaction_variant	HHIP
structural_interaction_variant	HHIP
structural_interaction_variant	ANAPC10
structural_interaction_variant	OTUD4
structural_interaction_variant	OTUD4
structural_interaction_variant	SMAD1

structural_interaction_variant	C4orf51
structural_interaction_variant	C4orf51
missense_variant&splice_region_variant	C4orf51
splice_donor_variant&intron_variant	ZNF827
structural_interaction_variant	ZNF827
structural_interaction_variant	ZNF827
structural_interaction_variant	ZNF827
structural_interaction_variant	ZNF827
structural_interaction_variant	ZNF827
missense_variant&splice_region_variant	POU4F2
missense_variant&splice_region_variant	POU4F2
structural_interaction_variant	POU4F2
structural_interaction_variant	TTC29
structural_interaction_variant	EDNRA
structural_interaction_variant	TMEM184C
structural_interaction_variant	TMEM184C
structural_interaction_variant	TMEM184C
structural_interaction_variant	TMEM184C
structural_interaction_variant	PRMT10
structural_interaction_variant	PRMT10
conservative_inframe_deletion	PRMT10
structural_interaction_variant	PRMT10
structural_interaction_variant	PRMT10
structural_interaction_variant	ARHGAP10
structural_interaction_variant	ARHGAP10
structural_interaction_variant	ARHGAP10
structural_interaction_variant	ARHGAP10
structural_interaction_variant	ARHGAP10
missense_variant&splice_region_variant	ARHGAP10
structural_interaction_variant	DCLK2
structural_interaction_variant	LRBA
structural_interaction_variant	LRBA
structural_interaction_variant	LRBA
structural_interaction_variant	LRBA
structural_interaction_variant	LRBA
structural_interaction_variant	SH3D19
structural_interaction_variant	SH3D19
structural_interaction_variant	SH3D19
stop_gained	SH3D19
structural_interaction_variant	FAM160A1
structural_interaction_variant	FAM160A1
structural_interaction_variant	FAM160A1
structural_interaction_variant	FAM160A1
structural_interaction_variant	FAM160A1
structural_interaction_variant	FAM160A1
missense_variant&splice_region_variant	PET112
structural_interaction_variant	PET112
structural_interaction_variant	FBXW7

stop_gained	TIGD4
structural_interaction_variant	ARFIP1
structural_interaction_variant	FHDC1
missense_variant&splice_region_variant	FHDC1
structural_interaction_variant	FHDC1
structural_interaction_variant	FHDC1
structural_interaction_variant	FHDC1
structural_interaction_variant	FHDC1
structural_interaction_variant	MND1
splice_donor_variant&intron_variant	KIAA0922
structural_interaction_variant	KIAA0922
structural_interaction_variant	KIAA0922
structural_interaction_variant	KIAA0922
structural_interaction_variant	KIAA0922
missense_variant&splice_region_variant	KIAA0922
structural_interaction_variant	TLR2
stop_gained	TLR2
stop_gained	RNF175
structural_interaction_variant	RNF175
structural_interaction_variant	SFRP2
structural_interaction_variant	SFRP2
frameshift_variant	SFRP2
structural_interaction_variant	DCHS2
structural_interaction_variant	DCHS2
structural_interaction_variant	DCHS2
structural_interaction_variant	DCHS2
structural_interaction_variant	DCHS2
structural_interaction_variant	DCHS2
structural_interaction_variant	DCHS2
structural_interaction_variant	DCHS2
structural_interaction_variant	PLRG1
structural_interaction_variant	FGA
structural_interaction_variant	FGA
structural_interaction_variant	LRAT
structural_interaction_variant	LRAT
structural_interaction_variant	RBM46
structural_interaction_variant	NPY2R
stop_gained	NPY2R
structural_interaction_variant	NPY2R
structural_interaction_variant	NPY2R
structural_interaction_variant	MAP9
structural_interaction_variant	MAP9
structural_interaction_variant	MAP9
structural_interaction_variant	MAP9
structural_interaction_variant	MAP9
structural_interaction_variant	MAP9
structural_interaction_variant	MAP9
start_lost	GUCY1A3

structural_interaction_variant	GUCY1A3
structural_interaction_variant	GUCY1A3
structural_interaction_variant	GUCY1A3
structural_interaction_variant	GUCY1A3
structural_interaction_variant	GUCY1B3
structural_interaction_variant	ASIC5
frameshift_variant	ASIC5
structural_interaction_variant	PDGFC
structural_interaction_variant	GRIA2
structural_interaction_variant	GRIA2
structural_interaction_variant	GRIA2
structural_interaction_variant	GRIA2
structural_interaction_variant	TMEM144
structural_interaction_variant	RXFP1
structural_interaction_variant	RXFP1
stop_gained	RXFP1
frameshift_variant	PPID
structural_interaction_variant	FNIP2
disruptive_inframe_deletion	FNIP2
structural_interaction_variant	FNIP2
structural_interaction_variant	FNIP2
structural_interaction_variant	FNIP2
structural_interaction_variant	FNIP2
structural_interaction_variant	FNIP2
structural_interaction_variant	C4orf45
structural_interaction_variant	C4orf45
structural_interaction_variant	C4orf45
structural_interaction_variant	RAPGEF2
structural_interaction_variant	RAPGEF2
structural_interaction_variant	RAPGEF2
frameshift_variant	RAPGEF2
structural_interaction_variant	RAPGEF2
structural_interaction_variant	FSTL5
structural_interaction_variant	FSTL5
structural_interaction_variant	FSTL5
structural_interaction_variant	FSTL5
stop_gained	FSTL5
structural_interaction_variant	FSTL5
structural_interaction_variant	NPY5R
structural_interaction_variant	NPY5R
structural_interaction_variant	TKTL2
structural_interaction_variant	TKTL2
structural_interaction_variant	TKTL2
structural_interaction_variant	TKTL2
structural_interaction_variant	TKTL2
structural_interaction_variant	TKTL2
structural_interaction_variant	TMA16
structural_interaction_variant	TMA16

structural_interaction_variant	MARCH1
structural_interaction_variant	MARCH1
structural_interaction_variant	TRIM60
structural_interaction_variant	TRIM60
structural_interaction_variant	KLHL2
structural_interaction_variant	CPE
structural_interaction_variant	TLL1
structural_interaction_variant	TLL1
splice_acceptor_variant&intron_variant	TLL1
structural_interaction_variant	TLL1
structural_interaction_variant	SPOCK3
structural_interaction_variant	DDX60
structural_interaction_variant	DDX60
structural_interaction_variant	DDX60
structural_interaction_variant	DDX60
structural_interaction_variant	DDX60
stop_gained	DDX60
structural_interaction_variant	DDX60
structural_interaction_variant	DDX60L
stop_gained	DDX60L
structural_interaction_variant	DDX60L
structural_interaction_variant	DDX60L
structural_interaction_variant	DDX60L
frameshift_variant	DDX60L
structural_interaction_variant	DDX60L
stop_gained	DDX60L
structural_interaction_variant	PALLD
structural_interaction_variant	PALLD
structural_interaction_variant	PALLD
structural_interaction_variant	PALLD
structural_interaction_variant	PALLD
structural_interaction_variant	CBR4
structural_interaction_variant	SH3RF1
structural_interaction_variant	SH3RF1
structural_interaction_variant	SH3RF1
stop_gained	NEK1
stop_gained	NEK1
structural_interaction_variant	NEK1
structural_interaction_variant	NEK1
structural_interaction_variant	NEK1
structural_interaction_variant	CLCN3
structural_interaction_variant	CLCN3
structural_interaction_variant	AADAT
structural_interaction_variant	AADAT
structural_interaction_variant	AADAT
structural_interaction_variant	GALNTL6
structural_interaction_variant	GALNTL6
structural_interaction_variant	GALNTL6

structural_interaction_variant	GALNT7
structural_interaction_variant	SCRG1
structural_interaction_variant	FBXO8
structural_interaction_variant	CEP44
structural_interaction_variant	CEP44
splice_donor_variant&intron_variant	CEP44
splice_donor_variant&intron_variant	GLRA3
structural_interaction_variant	ADAM29
frameshift_variant	ADAM29
structural_interaction_variant	ADAM29
structural_interaction_variant	ADAM29
frameshift_variant	ADAM29
splice_acceptor_variant&intron_variant	GPM6A
structural_interaction_variant	WDR17
frameshift_variant	WDR17
structural_interaction_variant	WDR17
structural_interaction_variant	WDR17
structural_interaction_variant	WDR17
structural_interaction_variant	WDR17
structural_interaction_variant	WDR17
structural_interaction_variant	WDR17
structural_interaction_variant	SPATA4
structural_interaction_variant	SPATA4
structural_interaction_variant	ASB5
structural_interaction_variant	SPCS3
frameshift_variant	VEGFC
structural_interaction_variant	VEGFC
structural_interaction_variant	NEIL3
structural_interaction_variant	NEIL3
structural_interaction_variant	NEIL3
structural_interaction_variant	NEIL3
frameshift_variant	NEIL3
structural_interaction_variant	AGA
structural_interaction_variant	AGA
frameshift_variant	AGA
structural_interaction_variant	TENM3
structural_interaction_variant	TENM3
structural_interaction_variant	TENM3
structural_interaction_variant	TENM3
structural_interaction_variant	DCTD
structural_interaction_variant	WWC2
structural_interaction_variant	WWC2
structural_interaction_variant	WWC2
structural_interaction_variant	WWC2
structural_interaction_variant	WWC2
structural_interaction_variant	CDKN2AIP
structural_interaction_variant	CDKN2AIP
structural_interaction_variant	CDKN2AIP

structural_interaction_variant	CDKN2AIP
structural_interaction_variant	CDKN2AIP
structural_interaction_variant	CDKN2AIP
frameshift_variant	TRAPPC11
frameshift_variant	TRAPPC11
structural_interaction_variant	TRAPPC11
structural_interaction_variant	STOX2
structural_interaction_variant	STOX2
structural_interaction_variant	STOX2
structural_interaction_variant	ENPP6
structural_interaction_variant	ENPP6
structural_interaction_variant	ENPP6
structural_interaction_variant	ENPP6
structural_interaction_variant	ENPP6
structural_interaction_variant	ENPP6
structural_interaction_variant	IRF2
structural_interaction_variant	IRF2
structural_interaction_variant	PRIMPOL
structural_interaction_variant	PRIMPOL
structural_interaction_variant	PRIMPOL
structural_interaction_variant	PRIMPOL
structural_interaction_variant	CENPU
structural_interaction_variant	CENPU
structural_interaction_variant	CENPU
structural_interaction_variant	ACSL1
structural_interaction_variant	HELT
frameshift_variant	SLC25A4
structural_interaction_variant	SLC25A4
structural_interaction_variant	SLC25A4
structural_interaction_variant	KIAA1430
frameshift_variant	KIAA1430
structural_interaction_variant	SNX25
structural_interaction_variant	SNX25
structural_interaction_variant	SNX25
structural_interaction_variant	SNX25
stop_gained	LRP2BP
structural_interaction_variant	LRP2BP
structural_interaction_variant	LRP2BP
stop_gained	ANKRD37
missense_variant&splice_region_variant	UFSP2
structural_interaction_variant	UFSP2
structural_interaction_variant	UFSP2
structural_interaction_variant	UFSP2
structural_interaction_variant	C4orf47
structural_interaction_variant	CCDC110
structural_interaction_variant	CCDC110
structural_interaction_variant	SORBS2
structural_interaction_variant	SORBS2

structural_interaction_variant	SORBS2
frameshift_variant	SORBS2
structural_interaction_variant	SORBS2
structural_interaction_variant	SORBS2
structural_interaction_variant	TLR3
structural_interaction_variant	FAM149A
structural_interaction_variant	CYP4V2
structural_interaction_variant	MTNR1A
structural_interaction_variant	FAT1
stop_gained	FAT1
structural_interaction_variant	FAT1
structural_interaction_variant	FAT1
structural_interaction_variant	FAT1
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structural_interaction_variant	FAT1
structural_interaction_variant	FAT1
structural_interaction_variant	FAT1
structural_interaction_variant	FAT1
structural_interaction_variant	ZFP42
frameshift_variant	ZFP42
structural_interaction_variant	TRIML2
structural_interaction_variant	TRIML2
structural_interaction_variant	TRIML2
stop_gained&splice_region_variant	TRIML2
frameshift_variant	TRIML2
structural_interaction_variant	TRIML1
structural_interaction_variant	PLEKHG4B
structural_interaction_variant	PLEKHG4B
structural_interaction_variant	PLEKHG4B
structural_interaction_variant	PLEKHG4B
structural_interaction_variant	PLEKHG4B
structural_interaction_variant	LRRC14B
structural_interaction_variant	PDCD6
structural_interaction_variant	PDCD6
splice_acceptor_variant&intron_variant	AHRR
structural_interaction_variant	AHRR

stop_gained	AHRR
structural_interaction_variant	AHRR
structural_interaction_variant	C5orf55
structural_interaction_variant	C5orf55
structural_interaction_variant	C5orf55
structural_interaction_variant	C5orf55
structural_interaction_variant	C5orf55
structural_interaction_variant	EXOC3
structural_interaction_variant	EXOC3
structural_interaction_variant	EXOC3
structural_interaction_variant	EXOC3
structural_interaction_variant	EXOC3
structural_interaction_variant	EXOC3
structural_interaction_variant	CEP72
structural_interaction_variant	CEP72
structural_interaction_variant	CEP72
missense_variant&splice_region_variant	CEP72
structural_interaction_variant	CEP72
structural_interaction_variant	TPPP
structural_interaction_variant	ZDHHC11
structural_interaction_variant	BRD9
structural_interaction_variant	BRD9
structural_interaction_variant	NKD2
structural_interaction_variant	SLC12A7
structural_interaction_variant	SLC12A7
structural_interaction_variant	SLC12A7
structural_interaction_variant	SLC12A7
structural_interaction_variant	SLC12A7
structural_interaction_variant	SLC12A7
structural_interaction_variant	SLC12A7
structural_interaction_variant	SLC6A19
stop_gained	SLC6A18
structural_interaction_variant	TERT
structural_interaction_variant	CLPTM1L
structural_interaction_variant	CLPTM1L
structural_interaction_variant	CLPTM1L
structural_interaction_variant	LPCAT1
structural_interaction_variant	LPCAT1
structural_interaction_variant	LPCAT1
stop_lost	IRX2
structural_interaction_variant	IRX2
structural_interaction_variant	IRX2
structural_interaction_variant	C5orf38
structural_interaction_variant	IRX1
structural_interaction_variant	IRX1
structural_interaction_variant	IRX1
structural_interaction_variant	ADAMTS16
structural_interaction_variant	ADAMTS16

structural_interaction_variant	ADAMTS16
structural_interaction_variant	ADAMTS16
frameshift_variant	ADAMTS16
structural_interaction_variant	KIAA0947
structural_interaction_variant	KIAA0947
structural_interaction_variant	KIAA0947
missense_variant&splice_region_variant	KIAA0947
structural_interaction_variant	KIAA0947
frameshift_variant	KIAA0947
structural_interaction_variant	KIAA0947
structural_interaction_variant	KIAA0947
structural_interaction_variant	PAPD7
structural_interaction_variant	PAPD7
structural_interaction_variant	ADCY2
structural_interaction_variant	ADCY2
structural_interaction_variant	ADCY2
structural_interaction_variant	ADCY2
structural_interaction_variant	FASTKD3
structural_interaction_variant	FASTKD3
splice_acceptor_variant&intron_variant	MTRR
frameshift_variant	MTRR
structural_interaction_variant	MTRR
structural_interaction_variant	SEMA5A
structural_interaction_variant	SEMA5A
structural_interaction_variant	SEMA5A
structural_interaction_variant	SEMA5A
structural_interaction_variant	SEMA5A
frameshift_variant	TAS2R1
structural_interaction_variant	FAM173B
missense_variant&splice_region_variant	FAM173B
missense_variant&splice_region_variant	FAM173B
structural_interaction_variant	FAM173B
structural_interaction_variant	FAM173B
structural_interaction_variant	FAM173B
structural_interaction_variant	CCT5
frameshift_variant	CMBL
missense_variant&splice_region_variant	MARCH6
structural_interaction_variant	MARCH6
structural_interaction_variant	ROPN1L
structural_interaction_variant	ANKRD33B
structural_interaction_variant	CTNND2
structural_interaction_variant	CTNND2
structural_interaction_variant	CTNND2
stop_gained	DNAH5
structural_interaction_variant	DNAH5
structural_interaction_variant	DNAH5
stop_gained	DNAH5
frameshift_variant	DNAH5

structural_interaction_variant	TRIO
structural_interaction_variant	FAM105A
structural_interaction_variant	FAM105A
structural_interaction_variant	OTULIN
structural_interaction_variant	OTULIN
frameshift_variant	OTULIN
structural_interaction_variant	OTULIN
structural_interaction_variant	FBXL7
structural_interaction_variant	FBXL7
structural_interaction_variant	MARCH11
structural_interaction_variant	ZNF622
structural_interaction_variant	ZNF622
structural_interaction_variant	FAM134B
structural_interaction_variant	MYO10
structural_interaction_variant	MYO10
structural_interaction_variant	MYO10
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structural_interaction_variant	MYO10
structural_interaction_variant	MYO10
structural_interaction_variant	MYO10
frameshift_variant	MYO10
structural_interaction_variant	MYO10
structural_interaction_variant	MYO10
structural_interaction_variant	MYO10
structural_interaction_variant	BASP1
structural_interaction_variant	CDH18
structural_interaction_variant	CDH12
structural_interaction_variant	CDH12
structural_interaction_variant	CDH12
structural_interaction_variant	CDH12
structural_interaction_variant	CDH12
structural_interaction_variant	CDH12
structural_interaction_variant	CDH12
structural_interaction_variant	CDH12
structural_interaction_variant	CDH12
structural_interaction_variant	PRDM9
structural_interaction_variant	CDH10
structural_interaction_variant	CDH9
structural_interaction_variant	CDH9
structural_interaction_variant	DROSHA
structural_interaction_variant	DROSHA
structural_interaction_variant	C5orf22
structural_interaction_variant	PDZD2
structural_interaction_variant	PDZD2
structural_interaction_variant	PDZD2
structural_interaction_variant	PDZD2

structural_interaction_variant	PDZD2
structural_interaction_variant	PDZD2
structural_interaction_variant	PDZD2
structural_interaction_variant	PDZD2
structural_interaction_variant	PDZD2
structural_interaction_variant	PDZD2
structural_interaction_variant	PDZD2
structural_interaction_variant	PDZD2
stop_gained	PDZD2
disruptive_inframe_deletion	PDZD2
structural_interaction_variant	PDZD2
structural_interaction_variant	PDZD2
structural_interaction_variant	PDZD2
structural_interaction_variant	GOLPH3
structural_interaction_variant	ZFR
structural_interaction_variant	ZFR
structural_interaction_variant	ZFR
structural_interaction_variant	TARS
structural_interaction_variant	TARS
structural_interaction_variant	TARS
structural_interaction_variant	TARS
structural_interaction_variant	ADAMTS12
structural_interaction_variant	ADAMTS12
structural_interaction_variant	ADAMTS12
stop_gained	ADAMTS12
structural_interaction_variant	ADAMTS12
structural_interaction_variant	ADAMTS12
structural_interaction_variant	ADAMTS12
structural_interaction_variant	ADAMTS12
structural_interaction_variant	ADAMTS12
stop_gained	RXFP3
structural_interaction_variant	RXFP3
structural_interaction_variant	RXFP3
structural_interaction_variant	C1QTNF3
structural_interaction_variant	C1QTNF3
missense_variant&splice_region_variant	RAI14
splice_acceptor_variant&intron_variant	RAI14
frameshift_variant	RAI14
structural_interaction_variant	TTC23L
structural_interaction_variant	TTC23L
structural_interaction_variant	BRIX1
structural_interaction_variant	AGXT2
stop_gained	AGXT2
structural_interaction_variant	AGXT2
structural_interaction_variant	SPEF2
stop_gained	SPEF2
missense_variant&splice_region_variant	SPEF2
structural_interaction_variant	SPEF2

stop_gained	SPEF2
missense_variant&splice_region_variant	SPEF2
structural_interaction_variant	SPEF2
frameshift_variant	SPEF2
structural_interaction_variant	SPEF2
structural_interaction_variant	SPEF2
structural_interaction_variant	IL7R
structural_interaction_variant	UGT3A1
structural_interaction_variant	UGT3A1
structural_interaction_variant	UGT3A1
structural_interaction_variant	UGT3A2
structural_interaction_variant	LMBRD2
structural_interaction_variant	LMBRD2
structural_interaction_variant	NADK2
stop_gained	NADK2
structural_interaction_variant	RANBP3L
structural_interaction_variant	C5orf42
structural_interaction_variant	C5orf42
structural_interaction_variant	C5orf42
structural_interaction_variant	C5orf42
frameshift_variant	C5orf42
structural_interaction_variant	C5orf42
structural_interaction_variant	C5orf42
structural_interaction_variant	C5orf42
structural_interaction_variant	C5orf42
missense_variant&splice_region_variant	C5orf42
structural_interaction_variant	C5orf42
structural_interaction_variant	C5orf42
structural_interaction_variant	C5orf42
structural_interaction_variant	C5orf42
structural_interaction_variant	C5orf42
structural_interaction_variant	NUP155
structural_interaction_variant	NUP155
structural_interaction_variant	NUP155
missense_variant&splice_region_variant	NUP155
structural_interaction_variant	NUP155
splice_acceptor_variant&intron_variant	NUP155
missense_variant&splice_region_variant	NUP155
structural_interaction_variant	NUP155
missense_variant&splice_region_variant	NUP155
structural_interaction_variant	GDNF
missense_variant&splice_region_variant	GDNF
splice_acceptor_variant&intron_variant	EGFLAM
structural_interaction_variant	EGFLAM
structural_interaction_variant	EGFLAM
structural_interaction_variant	EGFLAM
structural_interaction_variant	EGFLAM
splice_acceptor_variant&intron_variant	EGFLAM

stop_gained	OSMR
structural_interaction_variant	RICTOR
structural_interaction_variant	RICTOR
structural_interaction_variant	RICTOR
structural_interaction_variant	RICTOR
structural_interaction_variant	RICTOR
structural_interaction_variant	RICTOR
structural_interaction_variant	RICTOR
structural_interaction_variant	RICTOR
missense_variant&splice_region_variant	FYB
structural_interaction_variant	FYB
structural_interaction_variant	FYB
structural_interaction_variant	FYB
structural_interaction_variant	FYB
structural_interaction_variant	DAB2
structural_interaction_variant	DAB2
structural_interaction_variant	DAB2
structural_interaction_variant	DAB2
structural_interaction_variant	PTGER4
structural_interaction_variant	TTC33
structural_interaction_variant	TTC33
structural_interaction_variant	TTC33
stop_gained	PRKAA1
structural_interaction_variant	PRKAA1
structural_interaction_variant	CARD6
structural_interaction_variant	CARD6
structural_interaction_variant	CARD6
structural_interaction_variant	CARD6
structural_interaction_variant	CARD6
structural_interaction_variant	CARD6
stop_gained	C7
structural_interaction_variant	C7
structural_interaction_variant	MROH2B
structural_interaction_variant	MROH2B
missense_variant&splice_region_variant	MROH2B
structural_interaction_variant	MROH2B
stop_gained&splice_region_variant	MROH2B
frameshift_variant	MROH2B
stop_gained	C6
structural_interaction_variant	C6
stop_gained	C6
structural_interaction_variant	C6
structural_interaction_variant	C6
frameshift_variant	PLCXD3
structural_interaction_variant	PLCXD3
structural_interaction_variant	C5orf51
structural_interaction_variant	C5orf51
structural_interaction_variant	FBXO4

stop_gained	GHR
structural_interaction_variant	GHR
structural_interaction_variant	CCDC152
structural_interaction_variant	CCDC152
stop_gained	SEPP1
structural_interaction_variant	ANXA2R
structural_interaction_variant	ZNF131
stop_gained	ZNF131
structural_interaction_variant	ZNF131
structural_interaction_variant	ZNF131
frameshift_variant&stop_gained	ZNF131
structural_interaction_variant	ZNF131
structural_interaction_variant	NIM1K
structural_interaction_variant	NIM1K
structural_interaction_variant	NIM1K
structural_interaction_variant	NIM1K
structural_interaction_variant	C5orf34
structural_interaction_variant	C5orf34
structural_interaction_variant	C5orf34
structural_interaction_variant	C5orf34
frameshift_variant	C5orf34
structural_interaction_variant	NNT
structural_interaction_variant	NNT
structural_interaction_variant	NNT
structural_interaction_variant	MRPS30
structural_interaction_variant	MRPS30
structural_interaction_variant	MRPS30
structural_interaction_variant	MRPS30
stop_gained	MRPS30
stop_gained	HCN1
stop_gained	EMB
structural_interaction_variant	PARP8
splice_donor_variant&intron_variant	PARP8
structural_interaction_variant	ITGA1
structural_interaction_variant	ITGA1
structural_interaction_variant	ITGA1
structural_interaction_variant	ITGA1
structural_interaction_variant	ITGA1
structural_interaction_variant	ITGA2
structural_interaction_variant	MOCS2
structural_interaction_variant	FST
structural_interaction_variant	FST
structural_interaction_variant	FST
structural_interaction_variant	FST
frameshift_variant	NDUFS4
structural_interaction_variant	ARL15
structural_interaction_variant	SNX18
structural_interaction_variant	SNX18

structural_interaction_variant	SNX18
structural_interaction_variant	GZMK
structural_interaction_variant	GZMA
structural_interaction_variant	GZMA
structural_interaction_variant	DHX29
structural_interaction_variant	DHX29
structural_interaction_variant	DHX29
structural_interaction_variant	DHX29
stop_gained	DHX29
structural_interaction_variant	SKIV2L2
structural_interaction_variant	SKIV2L2
structural_interaction_variant	PPAP2A
structural_interaction_variant	SLC38A9
structural_interaction_variant	SLC38A9
structural_interaction_variant	DDX4
structural_interaction_variant	DDX4
splice_donor_variant&intron_variant	DDX4
structural_interaction_variant	IL31RA
structural_interaction_variant	IL31RA
structural_interaction_variant	IL31RA
structural_interaction_variant	IL31RA
structural_interaction_variant	IL6ST
stop_gained	IL6ST
structural_interaction_variant	ANKRD55
structural_interaction_variant	ANKRD55
structural_interaction_variant	ANKRD55
frameshift_variant	ANKRD55
structural_interaction_variant	MAP3K1
structural_interaction_variant	MAP3K1
frameshift_variant	MAP3K1
frameshift_variant	MAP3K1
frameshift_variant	SETD9
structural_interaction_variant	MIER3
structural_interaction_variant	MIER3
structural_interaction_variant	GPBP1
structural_interaction_variant	PLK2
structural_interaction_variant	PLK2
structural_interaction_variant	PLK2
structural_interaction_variant	PLK2
structural_interaction_variant	PDE4D
frameshift_variant	DEPDC1B
structural_interaction_variant	DEPDC1B
structural_interaction_variant	DEPDC1B
structural_interaction_variant	ELOVL7
structural_interaction_variant	ELOVL7
structural_interaction_variant	ZSWIM6
structural_interaction_variant	C5orf64
splice_donor_variant&intron_variant	C5orf64

structural_interaction_variant	DIMT1
structural_interaction_variant	DIMT1
structural_interaction_variant	DIMT1
structural_interaction_variant	DIMT1
structural_interaction_variant	DIMT1
structural_interaction_variant	IPO11
frameshift_variant	IPO11
structural_interaction_variant	IPO11
structural_interaction_variant	HTR1A
structural_interaction_variant	HTR1A
structural_interaction_variant	HTR1A
structural_interaction_variant	HTR1A
missense_variant&splice_region_variant	RNF180
structural_interaction_variant	RNF180
structural_interaction_variant	ADAMTS6
structural_interaction_variant	PPWD1
structural_interaction_variant	TRAPPC13
structural_interaction_variant	TRAPPC13
missense_variant&splice_region_variant	SGTB
structural_interaction_variant	SGTB
structural_interaction_variant	SGTB
structural_interaction_variant	NLN
structural_interaction_variant	NLN
splice_acceptor_variant&intron_variant	NLN
structural_interaction_variant	NLN
structural_interaction_variant	ERBB2IP
structural_interaction_variant	ERBB2IP
structural_interaction_variant	ERBB2IP
structural_interaction_variant	ERBB2IP
structural_interaction_variant	SREK1
structural_interaction_variant	SREK1
splice_donor_variant&intron_variant	MAST4
structural_interaction_variant	MAST4
structural_interaction_variant	MAST4
structural_interaction_variant	MAST4
splice_acceptor_variant&intron_variant	MAST4
structural_interaction_variant	MAST4
structural_interaction_variant	MAST4
structural_interaction_variant	MAST4
structural_interaction_variant	MAST4
structural_interaction_variant	MAST4
structural_interaction_variant	MAST4
frameshift_variant	MAST4
structural_interaction_variant	MAST4
structural_interaction_variant	CD180
structural_interaction_variant	SLC30A5
structural_interaction_variant	SLC30A5
structural_interaction_variant	SLC30A5

structural_interaction_variant	SLC30A5
structural_interaction_variant	SLC30A5
structural_interaction_variant	SLC30A5
structural_interaction_variant	SLC30A5
structural_interaction_variant	SLC30A5
stop_gained	CCNB1
structural_interaction_variant	CDK7
structural_interaction_variant	CCDC125
structural_interaction_variant	CCDC125
structural_interaction_variant	TAF9
structural_interaction_variant	TAF9
conservative_inframe_deletion	TAF9
structural_interaction_variant	RAD17
structural_interaction_variant	RAD17
structural_interaction_variant	RAD17
structural_interaction_variant	NAIP
structural_interaction_variant	BDP1
frameshift_variant	BDP1
structural_interaction_variant	BDP1
structural_interaction_variant	BDP1
frameshift_variant	BDP1
structural_interaction_variant	BDP1
structural_interaction_variant	BDP1
frameshift_variant	BDP1
structural_interaction_variant	BDP1
structural_interaction_variant	BDP1
structural_interaction_variant	MRPS27
structural_interaction_variant	MRPS27
structural_interaction_variant	MRPS27
splice_donor_variant&intron_variant	MRPS27
structural_interaction_variant	PTCD2
structural_interaction_variant	PTCD2
structural_interaction_variant	ZNF366
structural_interaction_variant	ZNF366
structural_interaction_variant	ZNF366
structural_interaction_variant	ZNF366
structural_interaction_variant	ZNF366
structural_interaction_variant	ZNF366
structural_interaction_variant	ZNF366
structural_interaction_variant	ZNF366
structural_interaction_variant	TNPO1
structural_interaction_variant	TNPO1
structural_interaction_variant	FCHO2
structural_interaction_variant	FCHO2
structural_interaction_variant	FCHO2
stop_gained	TMEM171
structural_interaction_variant	TMEM171
structural_interaction_variant	TMEM171

structural_interaction_variant	TMEM171
structural_interaction_variant	TMEM171
structural_interaction_variant	FOXD1
structural_interaction_variant	FOXD1
missense_variant&splice_region_variant	UTP15
structural_interaction_variant	ARHGEF28
splice_donor_variant&intron_variant	ARHGEF28
structural_interaction_variant	ARHGEF28
structural_interaction_variant	ARHGEF28
structural_interaction_variant	ARHGEF28
structural_interaction_variant	ARHGEF28
stop_gained	ENC1
frameshift_variant	HEXB
frameshift_variant	HEXB
stop_gained	GFM2
structural_interaction_variant	GFM2
splice_donor_variant&intron_variant	GFM2
structural_interaction_variant	FAM169A
structural_interaction_variant	FAM169A
structural_interaction_variant	ANKRD31
splice_donor_variant&intron_variant	ANKRD31
splice_acceptor_variant&intron_variant	ANKRD31
structural_interaction_variant	ANKRD31
structural_interaction_variant	ANKRD31
structural_interaction_variant	ANKRD31
structural_interaction_variant	ANKRD31
structural_interaction_variant	HMGCR
structural_interaction_variant	HMGCR
structural_interaction_variant	HMGCR
structural_interaction_variant	COL4A3BP
structural_interaction_variant	COL4A3BP
structural_interaction_variant	COL4A3BP
structural_interaction_variant	COL4A3BP
structural_interaction_variant	POLK
missense_variant&splice_region_variant	POLK
frameshift_variant	POLK
structural_interaction_variant	ANKDD1B
structural_interaction_variant	ANKDD1B
structural_interaction_variant	POC5
structural_interaction_variant	POC5
structural_interaction_variant	POC5
missense_variant&splice_region_variant	POC5
structural_interaction_variant	SV2C
structural_interaction_variant	SV2C
structural_interaction_variant	IQGAP2
structural_interaction_variant	IQGAP2
structural_interaction_variant	IQGAP2
structural_interaction_variant	IQGAP2

stop_gained	IQGAP2
disruptive_inframe_deletion&splice_region_variant	IQGAP2
structural_interaction_variant	IQGAP2
splice_donor_variant&intron_variant	F2RL2
structural_interaction_variant	IQGAP2
structural_interaction_variant	IQGAP2
frameshift_variant	IQGAP2
structural_interaction_variant	IQGAP2
structural_interaction_variant	IQGAP2
structural_interaction_variant	IQGAP2
structural_interaction_variant	IQGAP2
structural_interaction_variant	F2R
structural_interaction_variant	F2R
structural_interaction_variant	F2R
structural_interaction_variant	F2RL1
structural_interaction_variant	CRHBP
frameshift_variant	AGGF1
structural_interaction_variant	AGGF1
structural_interaction_variant	AGGF1
structural_interaction_variant	PDE8B
structural_interaction_variant	PDE8B
frameshift_variant	PDE8B
structural_interaction_variant	PDE8B
splice_acceptor_variant&intron_variant	WDR41
structural_interaction_variant	WDR41
structural_interaction_variant	WDR41
missense_variant&splice_region_variant	WDR41
stop_gained	WDR41
structural_interaction_variant	ARSB
structural_interaction_variant	DMGDH
structural_interaction_variant	DMGDH
structural_interaction_variant	BHMT
structural_interaction_variant	BHMT
structural_interaction_variant	JMY
structural_interaction_variant	JMY
structural_interaction_variant	JMY
structural_interaction_variant	JMY
splice_acceptor_variant&intron_variant	JMY
structural_interaction_variant	JMY
structural_interaction_variant	JMY
structural_interaction_variant	CMYA5
structural_interaction_variant	CMYA5
structural_interaction_variant	CMYA5
structural_interaction_variant	CMYA5
structural_interaction_variant	CMYA5
structural_interaction_variant	CMYA5
structural_interaction_variant	CMYA5
stop_gained	CMYA5

structural_interaction_variant	CMYA5
structural_interaction_variant	CMYA5
structural_interaction_variant	CMYA5
structural_interaction_variant	CMYA5
disruptive_inframe_deletion	CMYA5
structural_interaction_variant	CMYA5
structural_interaction_variant	CMYA5
structural_interaction_variant	THBS4
structural_interaction_variant	THBS4
structural_interaction_variant	THBS4
structural_interaction_variant	THBS4
structural_interaction_variant	THBS4
missense_variant&splice_region_variant	THBS4
structural_interaction_variant	SERINC5
structural_interaction_variant	SERINC5
structural_interaction_variant	SERINC5
structural_interaction_variant	SERINC5
structural_interaction_variant	SPZ1
structural_interaction_variant	SPZ1
structural_interaction_variant	ZFYVE16
frameshift_variant	ZFYVE16
structural_interaction_variant	ZFYVE16
structural_interaction_variant	ZFYVE16
structural_interaction_variant	ZFYVE16
structural_interaction_variant	ZFYVE16
structural_interaction_variant	FAM151B
structural_interaction_variant	ANKRD34B
structural_interaction_variant	DHFR
stop_gained	MSH3
structural_interaction_variant	MSH3
frameshift_variant	MSH3
structural_interaction_variant	RASGRF2
structural_interaction_variant	RASGRF2
structural_interaction_variant	RASGRF2
stop_gained	RASGRF2
structural_interaction_variant	RASGRF2
structural_interaction_variant	RASGRF2
structural_interaction_variant	RASGRF2
missense_variant&splice_region_variant	RASGRF2
stop_gained	CKMT2
structural_interaction_variant	CKMT2
structural_interaction_variant	ZCCHC9
structural_interaction_variant	ACOT12
structural_interaction_variant	ACOT12
structural_interaction_variant	ACOT12
structural_interaction_variant	SSBP2
structural_interaction_variant	ATG10
structural_interaction_variant	ATP6AP1L

structural_interaction_variant	ATP6AP1L
structural_interaction_variant	ATP6AP1L
structural_interaction_variant	ATP6AP1L
structural_interaction_variant	VCAN
structural_interaction_variant	VCAN
structural_interaction_variant	HAPLN1
structural_interaction_variant	EDIL3
structural_interaction_variant	EDIL3
structural_interaction_variant	EDIL3
structural_interaction_variant	RASA1
structural_interaction_variant	TMEM161B
structural_interaction_variant	CETN3
structural_interaction_variant	LYSMD3
structural_interaction_variant	LYSMD3
structural_interaction_variant	GPR98
structural_interaction_variant	GPR98
structural_interaction_variant	GPR98
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structural_interaction_variant	GPR98
structural_interaction_variant	GPR98
structural_interaction_variant	GPR98
structural_interaction_variant	GPR98
disruptive_inframe_deletion	GPR98
structural_interaction_variant	GPR98
structural_interaction_variant	GPR98
structural_interaction_variant	GPR98
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structural_interaction_variant	GPR98
structural_interaction_variant	GPR98
structural_interaction_variant	GPR98
structural_interaction_variant	GPR98
stop_gained	GPR98
structural_interaction_variant	GPR98
structural_interaction_variant	GPR98
structural_interaction_variant	GPR98

structural_interaction_variant	GPR98
structural_interaction_variant	GPR98
structural_interaction_variant	ARRDC3
stop_gained	POU5F2
structural_interaction_variant	FAM172A
structural_interaction_variant	FAM172A
structural_interaction_variant	KIAA0825
structural_interaction_variant	KIAA0825
structural_interaction_variant	KIAA0825
structural_interaction_variant	KIAA0825
structural_interaction_variant	KIAA0825
structural_interaction_variant	KIAA0825
structural_interaction_variant	ANKRD32
frameshift_variant	ANKRD32
structural_interaction_variant	MCTP1
structural_interaction_variant	FAM81B
stop_gained	TTC37
structural_interaction_variant	TTC37
structural_interaction_variant	TTC37
stop_gained	TTC37
structural_interaction_variant	ARSK
structural_interaction_variant	ARSK
splice_acceptor_variant&intron_variant	ARSK
stop_gained	ARSK
structural_interaction_variant	ARSK
structural_interaction_variant	SPATA9
structural_interaction_variant	RHOBTB3
structural_interaction_variant	RHOBTB3
structural_interaction_variant	PCSK1
frameshift_variant	CAST
structural_interaction_variant	CAST
structural_interaction_variant	CAST
structural_interaction_variant	ERAP1
structural_interaction_variant	ERAP1
structural_interaction_variant	ERAP1
structural_interaction_variant	ERAP1
structural_interaction_variant	ERAP1
structural_interaction_variant	ERAP2
structural_interaction_variant	ERAP2
structural_interaction_variant	LNPEP
structural_interaction_variant	LNPEP
structural_interaction_variant	LNPEP
structural_interaction_variant	LNPEP
structural_interaction_variant	LNPEP
structural_interaction_variant	LNPEP
structural_interaction_variant	LNPEP
structural_interaction_variant	RIOK2
structural_interaction_variant	RIOK2

structural_interaction_variant	RIOK2
structural_interaction_variant	RGMB
structural_interaction_variant	RGMB
structural_interaction_variant	RGMB
structural_interaction_variant	RGMB
structural_interaction_variant	RGMB
structural_interaction_variant	CHD1
structural_interaction_variant	CHD1
structural_interaction_variant	ST8SIA4
structural_interaction_variant	SLCO4C1
splice_acceptor_variant&intron_variant	SLCO4C1
structural_interaction_variant	SLCO4C1
structural_interaction_variant	SLCO6A1
splice_acceptor_variant&intron_variant	SLCO6A1
structural_interaction_variant	PAM
structural_interaction_variant	PAM
structural_interaction_variant	PAM
structural_interaction_variant	GIN1
structural_interaction_variant	GIN1
structural_interaction_variant	PPIP5K2
structural_interaction_variant	NUDT12
structural_interaction_variant	NUDT12
stop_gained	NUDT12
structural_interaction_variant	EFNA5
structural_interaction_variant	FBXL17
structural_interaction_variant	FER
structural_interaction_variant	FER
structural_interaction_variant	FER
missense_variant&splice_region_variant	FER
missense_variant&splice_region_variant	FER
structural_interaction_variant	PJA2
structural_interaction_variant	PJA2
structural_interaction_variant	PJA2
frameshift_variant	PJA2
structural_interaction_variant	PJA2
structural_interaction_variant	PJA2
structural_interaction_variant	MAN2A1
structural_interaction_variant	MAN2A1
structural_interaction_variant	TMEM232
conservative_inframe_deletion	TMEM232
frameshift_variant&stop_gained	SLC25A46
structural_interaction_variant	WDR36
splice_donor_variant&intron_variant	WDR36
structural_interaction_variant	WDR36
structural_interaction_variant	CAMK4
structural_interaction_variant	CAMK4
structural_interaction_variant	EPB41L4A
structural_interaction_variant	EPB41L4A

structural_interaction_variant	EPB41L4A
stop_gained	APC
structural_interaction_variant	CTC-487M23.8
structural_interaction_variant	SRP19
structural_interaction_variant	REEP5
structural_interaction_variant	MCC
structural_interaction_variant	MCC
stop_gained	MCC
structural_interaction_variant	MCC
structural_interaction_variant	MCC
structural_interaction_variant	MCC
structural_interaction_variant	YTHDC2
structural_interaction_variant	YTHDC2
structural_interaction_variant	YTHDC2
structural_interaction_variant	YTHDC2
structural_interaction_variant	TRIM36
structural_interaction_variant	TRIM36
structural_interaction_variant	TRIM36
structural_interaction_variant	TRIM36
structural_interaction_variant	TRIM36
structural_interaction_variant	CCDC112
structural_interaction_variant	CCDC112
structural_interaction_variant	CCDC112
structural_interaction_variant	CCDC112
structural_interaction_variant	TICAM2
structural_interaction_variant	TICAM2
structural_interaction_variant	CDO1
structural_interaction_variant	CDO1
structural_interaction_variant	ATG12
structural_interaction_variant	ATG12
structural_interaction_variant	ATG12
structural_interaction_variant	ATG12
structural_interaction_variant	AQPEP
structural_interaction_variant	AQPEP
structural_interaction_variant	AQPEP
stop_gained	COMMD10
structural_interaction_variant	SEMA6A
structural_interaction_variant	SEMA6A
structural_interaction_variant	SEMA6A
structural_interaction_variant	SEMA6A
structural_interaction_variant	SEMA6A
structural_interaction_variant	SEMA6A
structural_interaction_variant	DMXL1
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structural_interaction_variant	DMXL1
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structural_interaction_variant	DMXL1
structural_interaction_variant	DMXL1

structural_interaction_variant	DMXL1
structural_interaction_variant	DMXL1
structural_interaction_variant	DMXL1
splice_acceptor_variant&intron_variant	DMXL1
structural_interaction_variant	DMXL1
structural_interaction_variant	DMXL1
structural_interaction_variant	DMXL1
structural_interaction_variant	DMXL1
structural_interaction_variant	DMXL1
structural_interaction_variant	DMXL1
structural_interaction_variant	HSD17B4
structural_interaction_variant	HSD17B4
structural_interaction_variant	HSD17B4
missense_variant&splice_region_variant	HSD17B4
structural_interaction_variant	HSD17B4
structural_interaction_variant	FAM170A
structural_interaction_variant	FAM170A
structural_interaction_variant	PRR16
structural_interaction_variant	FTMT
structural_interaction_variant	FTMT
structural_interaction_variant	FTMT
structural_interaction_variant	SRFBP1
structural_interaction_variant	SRFBP1
structural_interaction_variant	SRFBP1
structural_interaction_variant	ZNF474
structural_interaction_variant	SNCAIP
structural_interaction_variant	SNCAIP
structural_interaction_variant	SNX2
structural_interaction_variant	SNX2
structural_interaction_variant	PPIC
structural_interaction_variant	PPIC
structural_interaction_variant	PRDM6
structural_interaction_variant	CEP120
structural_interaction_variant	ZNF608
structural_interaction_variant	ZNF608
structural_interaction_variant	ZNF608
structural_interaction_variant	ZNF608
structural_interaction_variant	ZNF608
structural_interaction_variant	ZNF608
structural_interaction_variant	ZNF608
structural_interaction_variant	GRAMD3
structural_interaction_variant	GRAMD3
structural_interaction_variant	ALDH7A1
structural_interaction_variant	ALDH7A1
structural_interaction_variant	LMNB1
structural_interaction_variant	LMNB1
structural_interaction_variant	LMNB1
structural_interaction_variant	LMNB1

structural_interaction_variant	PRRC1
structural_interaction_variant	PRRC1
structural_interaction_variant	PRRC1
structural_interaction_variant	SLC12A2
structural_interaction_variant	FBN2
structural_interaction_variant	FBN2
structural_interaction_variant	FBN2
structural_interaction_variant	FBN2
structural_interaction_variant	FBN2
structural_interaction_variant	FBN2
structural_interaction_variant	FBN2
structural_interaction_variant	FBN2
structural_interaction_variant	FBN2
structural_interaction_variant	SLC27A6
structural_interaction_variant	SLC27A6
structural_interaction_variant	SLC27A6
structural_interaction_variant	SLC27A6
structural_interaction_variant	SLC27A6
structural_interaction_variant	ISOC1
structural_interaction_variant	ISOC1
structural_interaction_variant	ADAMTS19
structural_interaction_variant	ADAMTS19
structural_interaction_variant	ADAMTS19
structural_interaction_variant	CHSY3
structural_interaction_variant	CHSY3
structural_interaction_variant	CHSY3
stop_gained	RAPGEF6
structural_interaction_variant	RAPGEF6
structural_interaction_variant	RAPGEF6
structural_interaction_variant	RAPGEF6
structural_interaction_variant	RAPGEF6
structural_interaction_variant	RAPGEF6
structural_interaction_variant	RAPGEF6
structural_interaction_variant	FNIP1
structural_interaction_variant	FNIP1
structural_interaction_variant	FNIP1
structural_interaction_variant	ACSL6
structural_interaction_variant	ACSL6
structural_interaction_variant	P4HA2
structural_interaction_variant	P4HA2
structural_interaction_variant	PDLIM4
structural_interaction_variant	PDLIM4
structural_interaction_variant	PDLIM4
stop_gained&splice_region_variant	SLC22A4
structural_interaction_variant	SLC22A4
structural_interaction_variant	SLC22A5
structural_interaction_variant	SLC22A5
stop_gained	IRF1

structural_interaction_variant	IRF1
structural_interaction_variant	RAD50
frameshift_variant	RAD50
structural_interaction_variant	RAD50
frameshift_variant	RAD50
structural_interaction_variant	IL13
structural_interaction_variant	IL4
structural_interaction_variant	KIF3A
missense_variant&splice_region_variant	SEPT8
structural_interaction_variant	SEPT8
structural_interaction_variant	SHROOM1
structural_interaction_variant	LEAP2
structural_interaction_variant	HSPA4
structural_interaction_variant	HSPA4
structural_interaction_variant	FSTL4
structural_interaction_variant	FSTL4
structural_interaction_variant	FSTL4
structural_interaction_variant	FSTL4
structural_interaction_variant	C5orf15
structural_interaction_variant	TCF7
structural_interaction_variant	CDKL3
structural_interaction_variant	CDKL3
structural_interaction_variant	CDKL3
structural_interaction_variant	CDKL3
structural_interaction_variant	CDKL3
structural_interaction_variant	CDKL3
splice_acceptor_variant&intron_variant	UBE2B
structural_interaction_variant	CDKN2AIPNL
structural_interaction_variant	JADE2
structural_interaction_variant	JADE2
structural_interaction_variant	JADE2
stop_gained	JADE2
missense_variant&splice_region_variant	SEC24A
structural_interaction_variant	SEC24A
structural_interaction_variant	SEC24A
structural_interaction_variant	SEC24A
structural_interaction_variant	CAMLG
structural_interaction_variant	CAMLG
structural_interaction_variant	DDX46
structural_interaction_variant	DDX46
structural_interaction_variant	C5orf24
structural_interaction_variant	PCBD2
structural_interaction_variant	CATSPER3
structural_interaction_variant	PITX1
structural_interaction_variant	PITX1
structural_interaction_variant	PITX1
structural_interaction_variant	PITX1
structural_interaction_variant	PITX1

structural_interaction_variant	PITX1
frameshift_variant	C5orf66
structural_interaction_variant	CXCL14
structural_interaction_variant	SLC25A48
stop_gained	SLC25A48
stop_gained	LECT2
structural_interaction_variant	TGFBI
structural_interaction_variant	TGFBI
structural_interaction_variant	TGFBI
structural_interaction_variant	TRPC7
structural_interaction_variant	TRPC7
structural_interaction_variant	TRPC7
structural_interaction_variant	TRPC7
missense_variant&splice_region_variant	KLHL3
structural_interaction_variant	HNRNPA0
structural_interaction_variant	MYOT
structural_interaction_variant	MYOT
structural_interaction_variant	MYOT
stop_gained	MYOT
structural_interaction_variant	PKD2L2
structural_interaction_variant	PKD2L2
stop_gained	PKD2L2
structural_interaction_variant	FAM13B
structural_interaction_variant	FAM13B
structural_interaction_variant	FAM13B
structural_interaction_variant	FAM13B
structural_interaction_variant	FAM13B
structural_interaction_variant	WNT8A
structural_interaction_variant	WNT8A
structural_interaction_variant	WNT8A
structural_interaction_variant	NME5
stop_gained	BRD8
missense_variant&splice_region_variant	KIF20A
structural_interaction_variant	KIF20A
stop_gained	KIF20A
structural_interaction_variant	KIF20A
structural_interaction_variant	GFRA3
structural_interaction_variant	GFRA3
structural_interaction_variant	CDC25C
structural_interaction_variant	FAM53C
frameshift_variant	FAM53C
frameshift_variant	FAM53C
structural_interaction_variant	FAM53C
structural_interaction_variant	KDM3B
structural_interaction_variant	KDM3B
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structural_interaction_variant	KDM3B
structural_interaction_variant	KDM3B

structural_interaction_variant	KDM3B
structural_interaction_variant	KDM3B
missense_variant&splice_region_variant	REEP2
structural_interaction_variant	REEP2
structural_interaction_variant	EGR1
structural_interaction_variant	EGR1
structural_interaction_variant	HSPA9
frameshift_variant	SIL1
structural_interaction_variant	MATR3
structural_interaction_variant	SLC23A1
structural_interaction_variant	SLC23A1
structural_interaction_variant	MZB1
stop_gained	DNAJC18
structural_interaction_variant	TMEM173
structural_interaction_variant	CXXC5
structural_interaction_variant	CXXC5
structural_interaction_variant	CXXC5
structural_interaction_variant	PSD2
structural_interaction_variant	NRG2
structural_interaction_variant	NRG2
structural_interaction_variant	NRG2
structural_interaction_variant	NRG2
structural_interaction_variant	PFDN1
structural_interaction_variant	SLC4A9
splice_acceptor_variant&intron_variant	SLC4A9
structural_interaction_variant	SLC4A9
structural_interaction_variant	SLC4A9
structural_interaction_variant	SLC4A9
structural_interaction_variant	SLC4A9
structural_interaction_variant	ANKHD1
structural_interaction_variant	ANKHD1
structural_interaction_variant	ANKHD1
structural_interaction_variant	ANKHD1
structural_interaction_variant	ANKHD1
frameshift_variant	ANKHD1-EIF4EBP3
structural_interaction_variant	ANKHD1-EIF4EBP3
structural_interaction_variant	APBB3
frameshift_variant	APBB3
structural_interaction_variant	APBB3
structural_interaction_variant	APBB3
structural_interaction_variant	APBB3
frameshift_variant	APBB3
structural_interaction_variant	SLC35A4
structural_interaction_variant	CD14
structural_interaction_variant	CD14
structural_interaction_variant	CD14
stop_gained	CD14
structural_interaction_variant	CD14

stop_gained	TMCO6
structural_interaction_variant	NDUFA2
stop_gained	IK
stop_gained	WDR55
structural_interaction_variant	WDR55
structural_interaction_variant	HARS
structural_interaction_variant	HARS2
structural_interaction_variant	HARS2
structural_interaction_variant	PCDHA1
structural_interaction_variant	PCDHA1
structural_interaction_variant	PCDHA1
structural_interaction_variant	PCDHA1
structural_interaction_variant	PCDHA2
structural_interaction_variant	PCDHA2
structural_interaction_variant	PCDHA2
structural_interaction_variant	PCDHA3
structural_interaction_variant	PCDHA3
structural_interaction_variant	PCDHA3
structural_interaction_variant	PCDHA4
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structural_interaction_variant	PCDHAC1
structural_interaction_variant	PCDHAC1

structural_interaction_variant	PCDHAC2
structural_interaction_variant	PCDHAC2
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structural_interaction_variant	PCDHAC2
structural_interaction_variant	PCDHAC2
frameshift_variant	PCDHB1
structural_interaction_variant	PCDHB1
structural_interaction_variant	PCDHB1
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structural_interaction_variant	PCDHB1
structural_interaction_variant	PCDHB1
frameshift_variant	PCDHB3
structural_interaction_variant	PCDHB3
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structural_interaction_variant	PCDHB3
structural_interaction_variant	PCDHB4
frameshift_variant	PCDHB4
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structural_interaction_variant	PCDHB10
structural_interaction_variant	PCDHB10
structural_interaction_variant	PCDHB11
structural_interaction_variant	PCDHB11
structural_interaction_variant	PCDHB11
structural_interaction_variant	PCDHB11
structural_interaction_variant	PCDHB11
structural_interaction_variant	PCDHB14
stop_gained	PCDHB14
structural_interaction_variant	PCDHB15
frameshift_variant	PCDHB15
structural_interaction_variant	PCDHB15
structural_interaction_variant	PCDHGA1

structural_interaction_variant	PCDHGA1
structural_interaction_variant	PCDHGA2
structural_interaction_variant	PCDHGA2
structural_interaction_variant	PCDHGA2
structural_interaction_variant	PCDHGA2
structural_interaction_variant	PCDHGA3
stop_gained	PCDHGA3
structural_interaction_variant	PCDHGA3
structural_interaction_variant	PCDHGA3
structural_interaction_variant	PCDHGA3
structural_interaction_variant	PCDHGA3
structural_interaction_variant	PCDHGA3
structural_interaction_variant	PCDHGB1
structural_interaction_variant	PCDHGB1
frameshift_variant	PCDHGB1
structural_interaction_variant	PCDHGB1
stop_gained	PCDHGA4
structural_interaction_variant	PCDHGA4
structural_interaction_variant	PCDHGA4
structural_interaction_variant	PCDHGB2
structural_interaction_variant	PCDHGB2
structural_interaction_variant	PCDHGB2
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structural_interaction_variant	PCDHGB2
frameshift_variant	PCDHGA5
structural_interaction_variant	PCDHGA5
structural_interaction_variant	PCDHGA5
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structural_interaction_variant	PCDHGA5
structural_interaction_variant	PCDHGB3
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structural_interaction_variant	PCDHGB3
structural_interaction_variant	PCDHGA6
structural_interaction_variant	PCDHGA6
structural_interaction_variant	PCDHGA6
structural_interaction_variant	PCDHGA6
frameshift_variant	PCDHGA6
frameshift_variant	PCDHGA6
structural_interaction_variant	PCDHGA7
structural_interaction_variant	PCDHGA7
structural_interaction_variant	PCDHGA7
structural_interaction_variant	PCDHGA7
structural_interaction_variant	PCDHGA7
structural_interaction_variant	PCDHGB4

structural_interaction_variant	PCDHGA8
frameshift_variant	PCDHGA8
structural_interaction_variant	PCDHGA8
start_lost	PCDHGA9
structural_interaction_variant	PCDHGA9
stop_gained	PCDHGA10
structural_interaction_variant	PCDHGA10
structural_interaction_variant	PCDHGA10
structural_interaction_variant	PCDHGA10
structural_interaction_variant	PCDHGA10
structural_interaction_variant	PCDHGB7
structural_interaction_variant	PCDHGA11
structural_interaction_variant	PCDHGA11
structural_interaction_variant	PCDHGA11
frameshift_variant	PCDHGA11
structural_interaction_variant	PCDHGA11
missense_variant&splice_region_variant	PCDHGA11
structural_interaction_variant	PCDHGA11
structural_interaction_variant	PCDHGA11
structural_interaction_variant	PCDHGC3
structural_interaction_variant	PCDHGC3
structural_interaction_variant	PCDHGC3
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structural_interaction_variant	PCDHGC4
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structural_interaction_variant	PCDHGC4
structural_interaction_variant	PCDHGC5
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structural_interaction_variant	PCDHGC5
structural_interaction_variant	PCDHGC5
structural_interaction_variant	PCDHGC5
structural_interaction_variant	PCDHGC5
structural_interaction_variant	RELL2
structural_interaction_variant	FCHSD1
structural_interaction_variant	FCHSD1
structural_interaction_variant	FCHSD1
missense_variant&splice_region_variant	FCHSD1
stop_gained	FCHSD1
structural_interaction_variant	ARAP3
structural_interaction_variant	ARAP3

structural_interaction_variant	PCDH1
structural_interaction_variant	PCDH1
structural_interaction_variant	PCDH1
missense_variant&splice_region_variant	KIAA0141
structural_interaction_variant	KIAA0141
structural_interaction_variant	PCDH12
stop_gained	PCDH12
structural_interaction_variant	GNPDA1
structural_interaction_variant	SPRY4
structural_interaction_variant	SPRY4
structural_interaction_variant	FGF1
structural_interaction_variant	FGF1
structural_interaction_variant	ARHGAP26
structural_interaction_variant	ARHGAP26
structural_interaction_variant	YIPF5
structural_interaction_variant	YIPF5
structural_interaction_variant	PRELID2
splice_acceptor_variant&intron_variant	PRELID2
structural_interaction_variant	GRXCR2
structural_interaction_variant	LARS
structural_interaction_variant	RBM27
structural_interaction_variant	RBM27
missense_variant&splice_region_variant	RBM27
structural_interaction_variant	RBM27
structural_interaction_variant	RBM27
structural_interaction_variant	TCERG1
frameshift_variant	TCERG1
structural_interaction_variant	TCERG1
structural_interaction_variant	TCERG1
structural_interaction_variant	TCERG1
structural_interaction_variant	GPR151
structural_interaction_variant	GPR151
structural_interaction_variant	GPR151
structural_interaction_variant	STK32A
structural_interaction_variant	DPYSL3
structural_interaction_variant	JAKMIP2
structural_interaction_variant	JAKMIP2
structural_interaction_variant	JAKMIP2
structural_interaction_variant	SPINK13
structural_interaction_variant	SPINK7
start_lost	SPINK7
structural_interaction_variant	FBXO38
structural_interaction_variant	FBXO38
structural_interaction_variant	FBXO38
structural_interaction_variant	HTR4
structural_interaction_variant	ADRB2
structural_interaction_variant	ADRB2
structural_interaction_variant	ADRB2

structural_interaction_variant	ADRB2
structural_interaction_variant	ADRB2
structural_interaction_variant	ADRB2
structural_interaction_variant	ADRB2
structural_interaction_variant	ADRB2
stop_gained	ADRB2
missense_variant&splice_region_variant	SH3TC2
structural_interaction_variant	ABLIM3
structural_interaction_variant	ABLIM3
structural_interaction_variant	ABLIM3
structural_interaction_variant	AFAP1L1
frameshift_variant	PCYOX1L
structural_interaction_variant	PCYOX1L
structural_interaction_variant	ARHGEF37
structural_interaction_variant	ARHGEF37
structural_interaction_variant	ARHGEF37
structural_interaction_variant	PPARGC1B
structural_interaction_variant	PPARGC1B
splice_donor_variant&intron_variant	SLC26A2
structural_interaction_variant	TIGD6
structural_interaction_variant	TIGD6
structural_interaction_variant	TIGD6
structural_interaction_variant	TIGD6
structural_interaction_variant	TIGD6
structural_interaction_variant	HMGXB3
structural_interaction_variant	HMGXB3
structural_interaction_variant	HMGXB3
structural_interaction_variant	SLC6A7
structural_interaction_variant	SLC6A7
structural_interaction_variant	SLC6A7
structural_interaction_variant	ARSI
structural_interaction_variant	TCOF1
structural_interaction_variant	NDST1
structural_interaction_variant	NDST1
structural_interaction_variant	NDST1
structural_interaction_variant	SYNPO
structural_interaction_variant	SYNPO
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structural_interaction_variant	SYNPO
structural_interaction_variant	SYNPO
structural_interaction_variant	MYOZ3
structural_interaction_variant	RBM22
structural_interaction_variant	RBM22
structural_interaction_variant	DCTN4
structural_interaction_variant	DCTN4

structural_interaction_variant	ZNF300
structural_interaction_variant	ZNF300
splice_donor_variant&intron_variant	ZNF300P1
structural_interaction_variant	GPX3
frameshift_variant&splice_region_variant	GPX3
structural_interaction_variant	TNIP1
structural_interaction_variant	TNIP1
frameshift_variant	TNIP1
structural_interaction_variant	ANXA6
structural_interaction_variant	ANXA6
structural_interaction_variant	ANXA6
structural_interaction_variant	CCDC69
structural_interaction_variant	CCDC69
structural_interaction_variant	GM2A
structural_interaction_variant	SLC36A3
splice_acceptor_variant&intron_variant	SLC36A3
structural_interaction_variant	SLC36A3
structural_interaction_variant	SLC36A2
frameshift_variant	SLC36A2
structural_interaction_variant	SLC36A1
structural_interaction_variant	FAT2
structural_interaction_variant	FAT2
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structural_interaction_variant	FAT2
structural_interaction_variant	FAT2
structural_interaction_variant	FAT2
structural_interaction_variant	FAT2
structural_interaction_variant	FAT2
structural_interaction_variant	FAT2
stop_gained	FAT2
structural_interaction_variant	FAT2
structural_interaction_variant	FAT2
structural_interaction_variant	FAT2
structural_interaction_variant	FAT2
structural_interaction_variant	FAT2
stop_gained	FAT2
structural_interaction_variant	FAT2
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structural_interaction_variant	FAT2
structural_interaction_variant	FAT2
structural_interaction_variant	FAT2
structural_interaction_variant	FAT2
structural_interaction_variant	G3BP1
structural_interaction_variant	G3BP1
frameshift_variant	GLRA1
structural_interaction_variant	GLRA1
frameshift_variant&stop_gained	NMUR2
structural_interaction_variant	NMUR2

structural_interaction_variant	NMUR2
structural_interaction_variant	GRIA1
structural_interaction_variant	FAM114A2
structural_interaction_variant	FAM114A2
structural_interaction_variant	FAM114A2
structural_interaction_variant	FAM114A2
structural_interaction_variant	FAM114A2
structural_interaction_variant	FAM114A2
structural_interaction_variant	MFAP3
structural_interaction_variant	GALNT10
structural_interaction_variant	GALNT10
structural_interaction_variant	GALNT10
stop_gained	GALNT10
structural_interaction_variant	SAP30L
structural_interaction_variant	HAND1
structural_interaction_variant	HAND1
splice_acceptor_variant&intron_variant	LARP1
structural_interaction_variant	LARP1
structural_interaction_variant	LARP1
structural_interaction_variant	LARP1
structural_interaction_variant	FAXDC2
frameshift_variant	GEMIN5
frameshift_variant	GEMIN5
stop_gained&splice_region_variant	GEMIN5
structural_interaction_variant	GEMIN5
structural_interaction_variant	GEMIN5
structural_interaction_variant	GEMIN5
structural_interaction_variant	GEMIN5
stop_gained	GEMIN5
structural_interaction_variant	KIF4B
structural_interaction_variant	KIF4B
stop_gained	KIF4B
frameshift_variant	KIF4B
structural_interaction_variant	KIF4B
frameshift_variant	KIF4B
structural_interaction_variant	KIF4B
structural_interaction_variant	KIF4B
structural_interaction_variant	KIF4B
stop_gained	KIF4B
structural_interaction_variant	KIF4B
structural_interaction_variant	KIF4B
stop_gained	SGCD
structural_interaction_variant	HAVCR1
structural_interaction_variant	MED7
structural_interaction_variant	MED7
structural_interaction_variant	FAM71B
missense_variant&splice_region_variant	ITK
stop_gained&splice_region_variant	ITK

structural_interaction_variant	ITK
structural_interaction_variant	ITK
structural_interaction_variant	CYFIP2
structural_interaction_variant	CYFIP2
stop_gained	FNDC9
structural_interaction_variant	FNDC9
structural_interaction_variant	CYFIP2
stop_gained	NIPAL4
structural_interaction_variant	ADAM19
structural_interaction_variant	THG1L
structural_interaction_variant	LSM11
structural_interaction_variant	LSM11
structural_interaction_variant	CLINT1
structural_interaction_variant	CLINT1
structural_interaction_variant	CLINT1
structural_interaction_variant	CLINT1
structural_interaction_variant	EBF1
structural_interaction_variant	EBF1
stop_gained	IL12B
structural_interaction_variant	IL12B
structural_interaction_variant	IL12B
stop_gained	IL12B
structural_interaction_variant	TTC1
structural_interaction_variant	TTC1
structural_interaction_variant	PWWP2A
structural_interaction_variant	PWWP2A
structural_interaction_variant	PWWP2A
structural_interaction_variant	FABP6
structural_interaction_variant	CCNJL
structural_interaction_variant	ATP10B
structural_interaction_variant	ATP10B
structural_interaction_variant	ATP10B
missense_variant&splice_region_variant	HMMR
stop_gained	HMMR
structural_interaction_variant	HMMR
structural_interaction_variant	HMMR
structural_interaction_variant	HMMR
structural_interaction_variant	HMMR
structural_interaction_variant	TENM2
structural_interaction_variant	TENM2
structural_interaction_variant	TENM2
structural_interaction_variant	TENM2
structural_interaction_variant	TENM2
structural_interaction_variant	TENM2
missense_variant&splice_region_variant	WWC1
structural_interaction_variant	WWC1
structural_interaction_variant	WWC1
structural_interaction_variant	WWC1

structural_interaction_variant	WWC1
structural_interaction_variant	WWC1
stop_gained	RARS
stop_gained	RARS
structural_interaction_variant	SLIT3
structural_interaction_variant	SLIT3
structural_interaction_variant	SLIT3
structural_interaction_variant	SLIT3
structural_interaction_variant	SPDL1
structural_interaction_variant	SPDL1
stop_gained	SPDL1
structural_interaction_variant	SPDL1
structural_interaction_variant	FAM196B
stop_gained	FAM196B
structural_interaction_variant	FAM196B
structural_interaction_variant	FAM196B
structural_interaction_variant	FOXI1
missense_variant&splice_region_variant	C5orf58
structural_interaction_variant	LCP2
structural_interaction_variant	RANBP17
structural_interaction_variant	RANBP17
structural_interaction_variant	RANBP17
structural_interaction_variant	RANBP17
structural_interaction_variant	FBXW11
structural_interaction_variant	STK10
structural_interaction_variant	STK10
structural_interaction_variant	STK10
structural_interaction_variant	STK10
stop_gained	SH3PXD2B
splice_donor_variant&intron_variant	ERGIC1
frameshift_variant	CREBRF
structural_interaction_variant	CREBRF
structural_interaction_variant	CREBRF
structural_interaction_variant	CREBRF
structural_interaction_variant	CREBRF
structural_interaction_variant	BNIP1
structural_interaction_variant	CPEB4
structural_interaction_variant	CPEB4
structural_interaction_variant	CPEB4
structural_interaction_variant	NSG2
structural_interaction_variant	DRD1
structural_interaction_variant	DRD1
structural_interaction_variant	SFXN1
structural_interaction_variant	SIMC1
structural_interaction_variant	KIAA1191
structural_interaction_variant	KIAA1191
structural_interaction_variant	ARL10
structural_interaction_variant	NOP16

structural_interaction_variant	HIGD2A
structural_interaction_variant	CLTB
splice_acceptor_variant&intron_variant	CDHR2
structural_interaction_variant	CDHR2
structural_interaction_variant	CDHR2
structural_interaction_variant	CDHR2
structural_interaction_variant	CDHR2
structural_interaction_variant	CDHR2
structural_interaction_variant	CDHR2
structural_interaction_variant	CDHR2
stop_gained	CDHR2
structural_interaction_variant	GPRIN1
structural_interaction_variant	GPRIN1
structural_interaction_variant	GPRIN1
structural_interaction_variant	GPRIN1
structural_interaction_variant	GPRIN1
structural_interaction_variant	GPRIN1
structural_interaction_variant	GPRIN1
structural_interaction_variant	EIF4E1B
structural_interaction_variant	EIF4E1B
structural_interaction_variant	EIF4E1B
structural_interaction_variant	TSPAN17
structural_interaction_variant	UNC5A
structural_interaction_variant	UNC5A
structural_interaction_variant	UNC5A
structural_interaction_variant	UNC5A
structural_interaction_variant	UNC5A
structural_interaction_variant	UNC5A
structural_interaction_variant	UNC5A
structural_interaction_variant	UNC5A
structural_interaction_variant	HK3
structural_interaction_variant	HK3
structural_interaction_variant	HK3
structural_interaction_variant	HK3
structural_interaction_variant	HK3
structural_interaction_variant	UIMC1
structural_interaction_variant	UIMC1
stop_gained	FGFR4
structural_interaction_variant	FGFR4
structural_interaction_variant	FGFR4
structural_interaction_variant	FGFR4
structural_interaction_variant	RAB24
structural_interaction_variant	MXD3
structural_interaction_variant	MXD3
structural_interaction_variant	LMAN2
structural_interaction_variant	GRK6
structural_interaction_variant	GRK6
structural_interaction_variant	GRK6

structural_interaction_variant	PRR7
structural_interaction_variant	PRR7
structural_interaction_variant	DBN1
frameshift_variant	DBN1
missense_variant&splice_region_variant	PDLIM7
structural_interaction_variant	DDX41
structural_interaction_variant	FAM193B
structural_interaction_variant	TMED9
stop_gained&splice_region_variant	TMED9
structural_interaction_variant	TMED9
structural_interaction_variant	B4GALT7
structural_interaction_variant	PROP1
structural_interaction_variant	PROP1
structural_interaction_variant	N4BP3
structural_interaction_variant	N4BP3
structural_interaction_variant	N4BP3
structural_interaction_variant	RMND5B
structural_interaction_variant	RMND5B
structural_interaction_variant	RMND5B
structural_interaction_variant	RMND5B
structural_interaction_variant	NHP2
frameshift_variant	PHYKPL
missense_variant&splice_region_variant	COL23A1
missense_variant&splice_region_variant	COL23A1
stop_gained	CLK4
structural_interaction_variant	ZNF354B
structural_interaction_variant	ZNF354B
structural_interaction_variant	ZNF354B
structural_interaction_variant	ZFP2
structural_interaction_variant	ZFP2
structural_interaction_variant	ZNF454
frameshift_variant	ZNF454
frameshift_variant	ZNF454
structural_interaction_variant	ZNF879
frameshift_variant	ZNF354C
frameshift_variant	RUFY1
structural_interaction_variant	HNRNPH1
frameshift_variant	CANX
structural_interaction_variant	CANX
structural_interaction_variant	MAML1
structural_interaction_variant	MAML1
structural_interaction_variant	MAML1
structural_interaction_variant	MAML1
structural_interaction_variant	MAML1
structural_interaction_variant	MGAT4B
structural_interaction_variant	MGAT4B
structural_interaction_variant	SQSTM1
structural_interaction_variant	C5orf45

structural_interaction_variant	TBC1D9B
structural_interaction_variant	TBC1D9B
structural_interaction_variant	TBC1D9B
structural_interaction_variant	TBC1D9B
structural_interaction_variant	TBC1D9B
structural_interaction_variant	TBC1D9B
structural_interaction_variant	TBC1D9B
missense_variant&splice_region_variant	TBC1D9B
splice_acceptor_variant&intron_variant	TBC1D9B
structural_interaction_variant	RASGEF1C
structural_interaction_variant	CNOT6
structural_interaction_variant	CNOT6
structural_interaction_variant	FLT4
structural_interaction_variant	FLT4
structural_interaction_variant	OR2Y1
structural_interaction_variant	OR2Y1
frameshift_variant	OR2Y1
structural_interaction_variant	OR2Y1
structural_interaction_variant	ZFP62
structural_interaction_variant	ZFP62
structural_interaction_variant	ZFP62
stop_gained	BTNL8
structural_interaction_variant	BTNL3
structural_interaction_variant	BTNL3
structural_interaction_variant	BTNL3
stop_gained	BTNL9
structural_interaction_variant	BTNL9
structural_interaction_variant	OR2V1
structural_interaction_variant	OR2V1
structural_interaction_variant	OR2V1
structural_interaction_variant	OR2V2
structural_interaction_variant	TRIM7
structural_interaction_variant	TRIM7
structural_interaction_variant	TRIM7
structural_interaction_variant	TRIM7
structural_interaction_variant	TRIM41
structural_interaction_variant	TRIM52
structural_interaction_variant	DUSP22
structural_interaction_variant	EXOC2
structural_interaction_variant	EXOC2
stop_gained	EXOC2
frameshift_variant	EXOC2
splice_acceptor_variant&intron_variant	EXOC2
structural_interaction_variant	EXOC2
structural_interaction_variant	EXOC2
structural_interaction_variant	HUS1B
structural_interaction_variant	FOXQ1
structural_interaction_variant	FOXQ1

structural_interaction_variant	GMDS
structural_interaction_variant	GMDS
structural_interaction_variant	GMDS
structural_interaction_variant	MYLK4
stop_gained	SERPINB1
structural_interaction_variant	NQO2
frameshift_variant	RIPK1
structural_interaction_variant	BPHL
structural_interaction_variant	SLC22A23
structural_interaction_variant	PRPF4B
structural_interaction_variant	PRPF4B
structural_interaction_variant	PRPF4B
structural_interaction_variant	PRPF4B
structural_interaction_variant	PRPF4B
structural_interaction_variant	FAM217A
disruptive_inframe_deletion	FAM217A
structural_interaction_variant	FAM217A
missense_variant&splice_region_variant	FAM217A
structural_interaction_variant	C6orf201
structural_interaction_variant	C6orf201
structural_interaction_variant	ECI2
structural_interaction_variant	ECI2
structural_interaction_variant	ECI2
structural_interaction_variant	ECI2
structural_interaction_variant	ECI2
structural_interaction_variant	RPP40
structural_interaction_variant	RPP40
structural_interaction_variant	RPP40
stop_gained	RPP40
structural_interaction_variant	RPP40
structural_interaction_variant	RPP40
structural_interaction_variant	LYRM4
structural_interaction_variant	FARS2
structural_interaction_variant	F13A1
structural_interaction_variant	LY86
structural_interaction_variant	RREB1
structural_interaction_variant	RREB1
structural_interaction_variant	RREB1
structural_interaction_variant	RREB1
structural_interaction_variant	RREB1
structural_interaction_variant	RREB1
structural_interaction_variant	RREB1
structural_interaction_variant	RREB1
structural_interaction_variant	RREB1
missense_variant&splice_region_variant	CAGE1
structural_interaction_variant	CAGE1
stop_gained	CAGE1
structural_interaction_variant	CAGE1

structural_interaction_variant	CAGE1
structural_interaction_variant	RIOK1
structural_interaction_variant	RIOK1
structural_interaction_variant	RIOK1
structural_interaction_variant	RIOK1
structural_interaction_variant	DSP
stop_gained	DSP
structural_interaction_variant	EEF1E1
structural_interaction_variant	EEF1E1
structural_interaction_variant	EEF1E1
structural_interaction_variant	SLC35B3
structural_interaction_variant	OFCC1
missense_variant&splice_region_variant	OFCC1
structural_interaction_variant	C6orf52
structural_interaction_variant	TMEM14C
structural_interaction_variant	TMEM14C
structural_interaction_variant	TMEM14C
structural_interaction_variant	GCM2
structural_interaction_variant	SYCP2L
structural_interaction_variant	SYCP2L
structural_interaction_variant	ERVFRD-1
stop_gained	NEDD9
structural_interaction_variant	NEDD9
structural_interaction_variant	NEDD9
structural_interaction_variant	TMEM170B
structural_interaction_variant	ADTRP
structural_interaction_variant	ADTRP
structural_interaction_variant	ADTRP
structural_interaction_variant	HIVEP1
structural_interaction_variant	HIVEP1
structural_interaction_variant	HIVEP1
structural_interaction_variant	HIVEP1
structural_interaction_variant	HIVEP1
structural_interaction_variant	HIVEP1
structural_interaction_variant	HIVEP1
structural_interaction_variant	HIVEP1
structural_interaction_variant	HIVEP1
structural_interaction_variant	HIVEP1
structural_interaction_variant	HIVEP1
structural_interaction_variant	HIVEP1
structural_interaction_variant	EDN1
structural_interaction_variant	EDN1
frameshift_variant	PHACTR1
structural_interaction_variant	GFOD1
structural_interaction_variant	GFOD1
structural_interaction_variant	SIRT5
structural_interaction_variant	AL441883.1
structural_interaction_variant	AL441883.1

structural_interaction_variant	AL441883.1
structural_interaction_variant	AL441883.1
structural_interaction_variant	RANBP9
structural_interaction_variant	MCUR1
structural_interaction_variant	CD83
structural_interaction_variant	JARID2
structural_interaction_variant	JARID2
structural_interaction_variant	JARID2
structural_interaction_variant	JARID2
structural_interaction_variant	JARID2
structural_interaction_variant	JARID2
structural_interaction_variant	MYLIP
structural_interaction_variant	GMPR
structural_interaction_variant	GMPR
structural_interaction_variant	GMPR
structural_interaction_variant	ATXN1
structural_interaction_variant	ATXN1
frameshift_variant	RBM24
structural_interaction_variant	RBM24
structural_interaction_variant	RBM24
structural_interaction_variant	CAP2
structural_interaction_variant	NUP153
missense_variant&splice_region_variant	NUP153
structural_interaction_variant	NUP153
structural_interaction_variant	NUP153
structural_interaction_variant	NUP153
structural_interaction_variant	KIF13A
structural_interaction_variant	KIF13A
structural_interaction_variant	KIF13A
structural_interaction_variant	KIF13A
structural_interaction_variant	KIF13A
structural_interaction_variant	KIF13A
missense_variant&splice_region_variant	KIF13A
structural_interaction_variant	TPMT
structural_interaction_variant	TPMT
stop_gained	KDM1B
frameshift_variant	RNF144B
stop_gained	ID4
structural_interaction_variant	MBOAT1
stop_gained	MBOAT1
structural_interaction_variant	MBOAT1
structural_interaction_variant	MBOAT1
structural_interaction_variant	E2F3
structural_interaction_variant	SOX4
structural_interaction_variant	SOX4
missense_variant&splice_region_variant	PRL
frameshift_variant	MRS2
frameshift_variant	MRS2

stop_gained	MRS2
structural_interaction_variant	GPLD1
structural_interaction_variant	GPLD1
structural_interaction_variant	KIAA0319
start_lost	ACOT13
structural_interaction_variant	FAM65B
structural_interaction_variant	FAM65B
structural_interaction_variant	LRRC16A
structural_interaction_variant	LRRC16A
structural_interaction_variant	LRRC16A
structural_interaction_variant	LRRC16A
structural_interaction_variant	LRRC16A
structural_interaction_variant	SCGN
structural_interaction_variant	SCGN
structural_interaction_variant	SCGN
missense_variant&splice_region_variant	SCGN
structural_interaction_variant	HIST1H2AA
missense_variant&splice_region_variant	SLC17A4
structural_interaction_variant	SLC17A4
missense_variant&splice_region_variant	SLC17A4
missense_variant&splice_region_variant	SLC17A4
structural_interaction_variant	SLC17A4
structural_interaction_variant	SLC17A4
structural_interaction_variant	SLC17A1
missense_variant&splice_region_variant	SLC17A1
structural_interaction_variant	SLC17A3
structural_interaction_variant	SLC17A2
structural_interaction_variant	SLC17A2
structural_interaction_variant	TRIM38
structural_interaction_variant	TRIM38
structural_interaction_variant	HIST1H1A
frameshift_variant	HIST1H1A
structural_interaction_variant	HIST1H1A
stop_gained	HIST1H1A
structural_interaction_variant	HIST1H1A
structural_interaction_variant	HIST1H1A
structural_interaction_variant	HIST1H1A
structural_interaction_variant	HIST1H3A
structural_interaction_variant	HIST1H3A
structural_interaction_variant	HIST1H3A
structural_interaction_variant	HIST1H3A
structural_interaction_variant	HIST1H4A
structural_interaction_variant	HIST1H4A
structural_interaction_variant	HIST1H4B
frameshift_variant	HIST1H2BB
structural_interaction_variant	HIST1H2BB
structural_interaction_variant	HIST1H2BB
structural_interaction_variant	HIST1H3C

structural_interaction_variant	HIST1H1C
structural_interaction_variant	HIST1H1C
structural_interaction_variant	HIST1H1C
structural_interaction_variant	HFE
structural_interaction_variant	HIST1H4C
structural_interaction_variant	HIST1H1T
structural_interaction_variant	HIST1H1T
structural_interaction_variant	HIST1H1E
structural_interaction_variant	HIST1H1E
structural_interaction_variant	HIST1H1E
structural_interaction_variant	HIST1H1E
structural_interaction_variant	HIST1H1E
structural_interaction_variant	HIST1H1E
structural_interaction_variant	HIST1H2BD
structural_interaction_variant	HIST1H4D
structural_interaction_variant	HIST1H4D
frameshift_variant	HIST1H4D
stop_lost	HIST1H2BF
structural_interaction_variant	HIST1H4E
structural_interaction_variant	HIST1H4E
structural_interaction_variant	HIST1H4E
structural_interaction_variant	HIST1H3E
structural_interaction_variant	HIST1H3E
structural_interaction_variant	HIST1H3E
structural_interaction_variant	HIST1H3E
structural_interaction_variant	HIST1H1D
structural_interaction_variant	HIST1H1D
structural_interaction_variant	HIST1H1D
structural_interaction_variant	HIST1H1D
structural_interaction_variant	HIST1H1D
structural_interaction_variant	HIST1H1D
structural_interaction_variant	HIST1H1D
structural_interaction_variant	HIST1H4F
structural_interaction_variant	HIST1H4G
structural_interaction_variant	HIST1H4G
structural_interaction_variant	HIST1H2BI
structural_interaction_variant	HIST1H2BI
structural_interaction_variant	HIST1H2BI
structural_interaction_variant	HIST1H4H
structural_interaction_variant	HIST1H4H
splice_acceptor_variant&intron_variant	BTN3A1
structural_interaction_variant	BTN3A1
structural_interaction_variant	BTN3A3
structural_interaction_variant	BTN3A3
structural_interaction_variant	BTN3A3
stop_gained	BTN2A1
structural_interaction_variant	BTN2A1
structural_interaction_variant	BTN1A1

structural_interaction_variant	BTN1A1
structural_interaction_variant	BTN1A1
structural_interaction_variant	HMGN4
structural_interaction_variant	HMGN4
structural_interaction_variant	ABT1
structural_interaction_variant	ABT1
structural_interaction_variant	HIST1H2AG
frameshift_variant&stop_gained	HIST1H2AG
structural_interaction_variant	HIST1H2AG
structural_interaction_variant	HIST1H2AG
structural_interaction_variant	HIST1H4I
structural_interaction_variant	HIST1H4I
structural_interaction_variant	HIST1H4I
structural_interaction_variant	HIST1H4I
structural_interaction_variant	HIST1H2AH
structural_interaction_variant	PRSS16
structural_interaction_variant	PRSS16
structural_interaction_variant	POM121L2
structural_interaction_variant	POM121L2
structural_interaction_variant	POM121L2
structural_interaction_variant	POM121L2
structural_interaction_variant	POM121L2
structural_interaction_variant	POM121L2
structural_interaction_variant	POM121L2
structural_interaction_variant	POM121L2
structural_interaction_variant	ZNF184
structural_interaction_variant	ZNF184
structural_interaction_variant	ZNF184
structural_interaction_variant	ZNF184
stop_gained	ZNF184
structural_interaction_variant	ZNF184
structural_interaction_variant	ZNF184
structural_interaction_variant	HIST1H3H
start_lost	HIST1H2BM
structural_interaction_variant	HIST1H2BM
structural_interaction_variant	HIST1H2BM
structural_interaction_variant	HIST1H2BM
structural_interaction_variant	HIST1H2AL
structural_interaction_variant	HIST1H2AL
structural_interaction_variant	HIST1H1B
structural_interaction_variant	HIST1H1B
structural_interaction_variant	HIST1H1B
structural_interaction_variant	HIST1H1B
structural_interaction_variant	HIST1H3I
structural_interaction_variant	HIST1H4L
structural_interaction_variant	HIST1H4L
structural_interaction_variant	HIST1H4L
structural_interaction_variant	HIST1H3J

structural_interaction_variant	HIST1H3J
stop_gained	HIST1H3J
structural_interaction_variant	HIST1H2AM
structural_interaction_variant	HIST1H2AM
structural_interaction_variant	HIST1H2AM
structural_interaction_variant	HIST1H2AM
start_lost	HIST1H2AM
structural_interaction_variant	HIST1H2BO
structural_interaction_variant	OR2B2
stop_gained	OR2B2
structural_interaction_variant	OR2B6
structural_interaction_variant	OR2B6
structural_interaction_variant	OR2B6
structural_interaction_variant	ZNF165
structural_interaction_variant	ZSCAN16
structural_interaction_variant	ZKSCAN8
structural_interaction_variant	ZKSCAN8
structural_interaction_variant	ZKSCAN8
stop_gained	ZKSCAN8
structural_interaction_variant	ZSCAN9
structural_interaction_variant	ZSCAN9
structural_interaction_variant	ZSCAN9
structural_interaction_variant	ZSCAN9
structural_interaction_variant	ZSCAN9
structural_interaction_variant	ZSCAN9
structural_interaction_variant	NKAPL
frameshift_variant	NKAPL
structural_interaction_variant	NKAPL
structural_interaction_variant	NKAPL
structural_interaction_variant	NKAPL
structural_interaction_variant	NKAPL
structural_interaction_variant	NKAPL
structural_interaction_variant	NKAPL
structural_interaction_variant	NKAPL
structural_interaction_variant	ZSCAN31
structural_interaction_variant	ZSCAN31
structural_interaction_variant	ZKSCAN3
structural_interaction_variant	ZSCAN12
structural_interaction_variant	ZSCAN12
structural_interaction_variant	ZSCAN12
structural_interaction_variant	ZSCAN12
structural_interaction_variant	SCAND3
structural_interaction_variant	SCAND3
structural_interaction_variant	SCAND3
structural_interaction_variant	SCAND3
structural_interaction_variant	SCAND3
structural_interaction_variant	TRIM27
structural_interaction_variant	TRIM27

structural_interaction_variant	TRIM27
structural_interaction_variant	ZNF311
structural_interaction_variant	OR2W1
structural_interaction_variant	OR2W1
structural_interaction_variant	OR2B3
structural_interaction_variant	OR2J1
structural_interaction_variant	OR2J3
structural_interaction_variant	OR2J2
structural_interaction_variant	OR14J1
stop_gained	OR12D2
structural_interaction_variant	OR12D1
structural_interaction_variant	MAS1L
structural_interaction_variant	MAS1L
structural_interaction_variant	UBD
structural_interaction_variant	OR2H2
structural_interaction_variant	GABBR1
structural_interaction_variant	GABBR1
structural_interaction_variant	GABBR1
structural_interaction_variant	GABBR1
structural_interaction_variant	HLA-F
structural_interaction_variant	HLA-G
structural_interaction_variant	HLA-A
splice_acceptor_variant&splice_donor_variant&splic	HLA-A
structural_interaction_variant	HLA-A
structural_interaction_variant	HLA-A
structural_interaction_variant	HLA-A
structural_interaction_variant	ZNRD1
structural_interaction_variant	ZNRD1
structural_interaction_variant	PPP1R11
structural_interaction_variant	RNF39
splice_donor_variant&intron_variant	TRIM31
structural_interaction_variant	TRIM31
splice_donor_variant&intron_variant	TRIM40
structural_interaction_variant	TRIM10
structural_interaction_variant	TRIM15
structural_interaction_variant	TRIM15
structural_interaction_variant	TRIM15
structural_interaction_variant	TRIM26
structural_interaction_variant	TRIM26
structural_interaction_variant	TRIM39
structural_interaction_variant	RPP21
structural_interaction_variant	HLA-E
structural_interaction_variant	GNL1
structural_interaction_variant	GNL1
structural_interaction_variant	PRR3
missense_variant&splice_region_variant	ABCF1
structural_interaction_variant	ABCF1
structural_interaction_variant	ABCF1

structural_interaction_variant	ABCF1
structural_interaction_variant	ABCF1
structural_interaction_variant	PPP1R10
structural_interaction_variant	PPP1R10
structural_interaction_variant	PPP1R10
conservative_inframe_deletion	PPP1R10
structural_interaction_variant	PPP1R10
structural_interaction_variant	PPP1R10
structural_interaction_variant	PPP1R10
structural_interaction_variant	MRPS18B
structural_interaction_variant	MRPS18B
structural_interaction_variant	MRPS18B
structural_interaction_variant	ATAT1
structural_interaction_variant	ATAT1
structural_interaction_variant	C6orf136
stop_gained	DHX16
structural_interaction_variant	DHX16
stop_gained	DHX16
stop_gained	DHX16
structural_interaction_variant	DHX16
structural_interaction_variant	DHX16
structural_interaction_variant	PPP1R18
structural_interaction_variant	PPP1R18
structural_interaction_variant	PPP1R18
structural_interaction_variant	PPP1R18
structural_interaction_variant	PPP1R18
structural_interaction_variant	PPP1R18
structural_interaction_variant	NRM
missense_variant&splice_region_variant	NRM
structural_interaction_variant	MDC1
structural_interaction_variant	MDC1
structural_interaction_variant	MDC1
structural_interaction_variant	MDC1
structural_interaction_variant	MDC1
structural_interaction_variant	MDC1
structural_interaction_variant	MDC1
structural_interaction_variant	MDC1
structural_interaction_variant	MDC1
structural_interaction_variant	MDC1
structural_interaction_variant	MDC1
splice_acceptor_variant&intron_variant	FLOT1
structural_interaction_variant	FLOT1
structural_interaction_variant	FLOT1
structural_interaction_variant	DDR1
structural_interaction_variant	DDR1
structural_interaction_variant	DDR1
structural_interaction_variant	DDR1
structural_interaction_variant	GTF2H4
structural_interaction_variant	GTF2H4

structural_interaction_variant	GTF2H4
structural_interaction_variant	VARS2
stop_lost	SFTA2
structural_interaction_variant	SFTA2
structural_interaction_variant	SFTA2
structural_interaction_variant	DPCR1
structural_interaction_variant	DPCR1
structural_interaction_variant	DPCR1
disruptive_inframe_deletion	MUC21
disruptive_inframe_deletion	MUC21
stop_gained	MUC21
structural_interaction_variant	MUC21
structural_interaction_variant	MUC21
structural_interaction_variant	MUC21
structural_interaction_variant	MUC21
structural_interaction_variant	MUC21
structural_interaction_variant	MUC21
stop_gained	C6orf15
structural_interaction_variant	CCHCR1
missense_variant&splice_region_variant	CCHCR1
structural_interaction_variant	CCHCR1
splice_donor_variant&splice_region_variant&5_prim	CCHCR1
structural_interaction_variant	CCHCR1
structural_interaction_variant	CCHCR1
structural_interaction_variant	TCF19
stop_gained	TCF19
structural_interaction_variant	TCF19
structural_interaction_variant	HLA-C
splice_acceptor_variant&splice_donor_variant&splic	HLA-C
structural_interaction_variant	HLA-C
structural_interaction_variant	HLA-B
structural_interaction_variant	HLA-B
structural_interaction_variant	HLA-B
structural_interaction_variant	DDX39B
structural_interaction_variant	DDX39B
structural_interaction_variant	DDX39B
splice_donor_variant&intron_variant	ATP6V1G2
structural_interaction_variant	NFKBIL1
frameshift_variant	NFKBIL1
structural_interaction_variant	NFKBIL1
structural_interaction_variant	LTB
structural_interaction_variant	NCR3
structural_interaction_variant	NCR3
structural_interaction_variant	NCR3
frameshift_variant&start_lost	NCR3
structural_interaction_variant	AIF1
structural_interaction_variant	AIF1
structural_interaction_variant	AIF1

structural_interaction_variant	AIF1
structural_interaction_variant	PRRC2A
structural_interaction_variant	PRRC2A
structural_interaction_variant	PRRC2A
structural_interaction_variant	PRRC2A
structural_interaction_variant	PRRC2A
structural_interaction_variant	PRRC2A
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structural_interaction_variant	PRRC2A
structural_interaction_variant	PRRC2A
structural_interaction_variant	PRRC2A
structural_interaction_variant	PRRC2A
structural_interaction_variant	PRRC2A
missense_variant&splice_region_variant	BAG6
structural_interaction_variant	BAG6
structural_interaction_variant	BAG6
structural_interaction_variant	BAG6
structural_interaction_variant	APOM
structural_interaction_variant	C6orf47
structural_interaction_variant	GPANK1
structural_interaction_variant	GPANK1
structural_interaction_variant	GPANK1
structural_interaction_variant	CSNK2B-LY6G5B-1181
structural_interaction_variant	CSNK2B-LY6G5B-1181
structural_interaction_variant	CSNK2B-LY6G5B-1181
structural_interaction_variant	LY6G5C
stop_gained	MEGT1
structural_interaction_variant	MEGT1
structural_interaction_variant	C6orf25
stop_lost	C6orf25
missense_variant&splice_region_variant	DDAH2
structural_interaction_variant	CLIC1
structural_interaction_variant	CLIC1
structural_interaction_variant	MSH5
missense_variant&splice_region_variant	MSH5
structural_interaction_variant	VWA7
structural_interaction_variant	VWA7
structural_interaction_variant	VARS
structural_interaction_variant	VARS
splice_donor_variant&intron_variant	VARS
structural_interaction_variant	HSPA1L
stop_gained	HSPA1L
structural_interaction_variant	HSPA1L
structural_interaction_variant	C6orf48
stop_gained	NEU1
structural_interaction_variant	SLC44A4
structural_interaction_variant	SLC44A4
stop_gained	SLC44A4

structural_interaction_variant	EHMT2
structural_interaction_variant	EHMT2
splice_donor_variant&intron_variant	EHMT2
structural_interaction_variant	ZBTB12
structural_interaction_variant	ZBTB12
structural_interaction_variant	C2
structural_interaction_variant	CFB
frameshift_variant	C2
structural_interaction_variant	CFB
structural_interaction_variant	CFB
structural_interaction_variant	NELFE
structural_interaction_variant	SKIV2L
missense_variant&splice_region_variant	TNXB
structural_interaction_variant	TNXB
structural_interaction_variant	TNXB
structural_interaction_variant	TNXB
structural_interaction_variant	TNXB
structural_interaction_variant	TNXB
structural_interaction_variant	TNXB
structural_interaction_variant	ATF6B
structural_interaction_variant	ATF6B
missense_variant&splice_region_variant	ATF6B
structural_interaction_variant	FKBPL
structural_interaction_variant	EGFL8
structural_interaction_variant	EGFL8
structural_interaction_variant	AGER
structural_interaction_variant	AGER
structural_interaction_variant	PBX2
structural_interaction_variant	NOTCH4
structural_interaction_variant	NOTCH4
structural_interaction_variant	NOTCH4
structural_interaction_variant	NOTCH4
splice_donor_variant&intron_variant	NOTCH4
missense_variant&splice_region_variant	C6orf10
missense_variant&splice_region_variant	BTNL2
structural_interaction_variant	HLA-DRA
structural_interaction_variant	HLA-DRA
structural_interaction_variant	HLA-DRA
structural_interaction_variant	HLA-DRA
structural_interaction_variant	HLA-DRA
frameshift_variant&stop_gained	HLA-DRB1
structural_interaction_variant	HLA-DQA1
structural_interaction_variant	HLA-DQA2
structural_interaction_variant	HLA-DQB2
structural_interaction_variant	HLA-DQB2
structural_interaction_variant	TAP2
structural_interaction_variant	TAP2
structural_interaction_variant	HLA-DMA

structural_interaction_variant	HLA-DMA
structural_interaction_variant	HLA-DMA
structural_interaction_variant	HLA-DMA
missense_variant&splice_region_variant	BRD2
structural_interaction_variant	BRD2
structural_interaction_variant	BRD2
structural_interaction_variant	BRD2
structural_interaction_variant	HLA-DOA
structural_interaction_variant	HLA-DOA
structural_interaction_variant	HLA-DOA
structural_interaction_variant	HLA-DOA
structural_interaction_variant	HLA-DPA1
stop_gained	COL11A2
structural_interaction_variant	COL11A2
structural_interaction_variant	SLC39A7
structural_interaction_variant	SLC39A7
structural_interaction_variant	SLC39A7
structural_interaction_variant	SLC39A7
structural_interaction_variant	SLC39A7
structural_interaction_variant	SLC39A7
structural_interaction_variant	HSD17B8
structural_interaction_variant	HSD17B8
structural_interaction_variant	HSD17B8
structural_interaction_variant	VPS52
structural_interaction_variant	VPS52
missense_variant&splice_region_variant	VPS52
structural_interaction_variant	VPS52
structural_interaction_variant	B3GALT4
structural_interaction_variant	WDR46
structural_interaction_variant	WDR46
structural_interaction_variant	WDR46
structural_interaction_variant	WDR46
structural_interaction_variant	RGL2
stop_gained	RGL2
structural_interaction_variant	RGL2
frameshift_variant	RGL2
structural_interaction_variant	ZBTB22
structural_interaction_variant	ZBTB22
structural_interaction_variant	ZBTB22
structural_interaction_variant	DAXX
structural_interaction_variant	KIFC1
structural_interaction_variant	KIFC1
structural_interaction_variant	KIFC1
structural_interaction_variant	KIFC1
structural_interaction_variant	PHF1
structural_interaction_variant	PHF1
frameshift_variant	PHF1
stop_gained	CUTA

structural_interaction_variant	CUTA
frameshift_variant	CUTA
structural_interaction_variant	CUTA
structural_interaction_variant	CUTA
structural_interaction_variant	CUTA
structural_interaction_variant	CUTA
structural_interaction_variant	CUTA
structural_interaction_variant	ZBTB9
structural_interaction_variant	ITPR3
structural_interaction_variant	ITPR3
structural_interaction_variant	ITPR3
structural_interaction_variant	ITPR3
structural_interaction_variant	ITPR3
structural_interaction_variant	ITPR3
structural_interaction_variant	ITPR3
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structural_interaction_variant	ITPR3
structural_interaction_variant	ITPR3
structural_interaction_variant	ITPR3
structural_interaction_variant	IP6K3
structural_interaction_variant	IP6K3
structural_interaction_variant	GRM4
structural_interaction_variant	GRM4
structural_interaction_variant	GRM4
structural_interaction_variant	GRM4
structural_interaction_variant	GRM4
structural_interaction_variant	GRM4
structural_interaction_variant	GRM4
structural_interaction_variant	GRM4
missense_variant&splice_region_variant	HMGA1
stop_lost	C6orf1
structural_interaction_variant	C6orf1
structural_interaction_variant	C6orf1
structural_interaction_variant	C6orf1
structural_interaction_variant	SPDEF
structural_interaction_variant	SNRPC
structural_interaction_variant	UHRF1BP1
structural_interaction_variant	UHRF1BP1
structural_interaction_variant	UHRF1BP1
structural_interaction_variant	UHRF1BP1
structural_interaction_variant	UHRF1BP1
structural_interaction_variant	ANKS1A
structural_interaction_variant	ANKS1A
structural_interaction_variant	TCP11
structural_interaction_variant	SCUBE3

structural_interaction_variant	SCUBE3
structural_interaction_variant	SCUBE3
structural_interaction_variant	ZNF76
structural_interaction_variant	ZNF76
structural_interaction_variant	ZNF76
structural_interaction_variant	ZNF76
structural_interaction_variant	ZNF76
structural_interaction_variant	ZNF76
structural_interaction_variant	PPARD
stop_gained	FANCE
structural_interaction_variant	TULP1
stop_gained	TULP1
frameshift_variant	FKBP5
structural_interaction_variant	ARMC12
structural_interaction_variant	ARMC12
structural_interaction_variant	ARMC12
structural_interaction_variant	CLPSL1
structural_interaction_variant	CLPSL1
splice_donor_variant&intron_variant	CLPS
structural_interaction_variant	SRPK1
structural_interaction_variant	SRPK1
missense_variant&splice_region_variant	SLC26A8
splice_donor_variant&intron_variant	SLC26A8
structural_interaction_variant	SLC26A8
structural_interaction_variant	SLC26A8
structural_interaction_variant	SLC26A8
structural_interaction_variant	MAPK13
structural_interaction_variant	MAPK13
structural_interaction_variant	BRPF3
structural_interaction_variant	PNPLA1
structural_interaction_variant	C6orf222
structural_interaction_variant	C6orf222
structural_interaction_variant	C6orf222
stop_gained	KCTD20
stop_gained	KCTD20
structural_interaction_variant	STK38
structural_interaction_variant	CDKN1A
structural_interaction_variant	PPIL1
structural_interaction_variant	PI16
structural_interaction_variant	PI16
stop_gained	PI16
structural_interaction_variant	PI16
structural_interaction_variant	PI16
structural_interaction_variant	PI16
structural_interaction_variant	PI16
structural_interaction_variant	FGD2
structural_interaction_variant	FGD2
structural_interaction_variant	FGD2

structural_interaction_variant	FGD2
structural_interaction_variant	FGD2
structural_interaction_variant	FGD2
structural_interaction_variant	FGD2
structural_interaction_variant	FGD2
structural_interaction_variant	PIM1
structural_interaction_variant	PIM1
structural_interaction_variant	TBC1D22B
structural_interaction_variant	RNF8
structural_interaction_variant	RNF8
structural_interaction_variant	RNF8
structural_interaction_variant	RNF8
structural_interaction_variant	CMTR1
structural_interaction_variant	CMTR1
structural_interaction_variant	CCDC167
structural_interaction_variant	MDGA1
structural_interaction_variant	MDGA1
structural_interaction_variant	MDGA1
structural_interaction_variant	MDGA1
structural_interaction_variant	BTBD9
structural_interaction_variant	BTBD9
structural_interaction_variant	BTBD9
stop_gained	BTBD9
frameshift_variant	GLO1
stop_gained	DNAH8
structural_interaction_variant	DNAH8
stop_gained	DNAH8
structural_interaction_variant	DNAH8
structural_interaction_variant	DNAH8
structural_interaction_variant	DNAH8
structural_interaction_variant	DNAH8
structural_interaction_variant	DNAH8
frameshift_variant	DNAH8
structural_interaction_variant	DNAH8
stop_gained	DNAH8
structural_interaction_variant	DNAH8
structural_interaction_variant	DNAH8
structural_interaction_variant	DNAH8
structural_interaction_variant	DNAH8
structural_interaction_variant	DNAH8
structural_interaction_variant	DNAH8
structural_interaction_variant	DNAH8
structural_interaction_variant	SAYSD1
structural_interaction_variant	KCNK17
splice_donor_variant&intron_variant	KCNK16
structural_interaction_variant	KCNK16
frameshift_variant	KCNK16
frameshift_variant	KIF6

missense_variant&splice_region_variant	KIF6
structural_interaction_variant	DAAM2
structural_interaction_variant	LRFN2
structural_interaction_variant	LRFN2
structural_interaction_variant	LRFN2
structural_interaction_variant	LRFN2
structural_interaction_variant	UNC5CL
structural_interaction_variant	UNC5CL
frameshift_variant	TSPO2
structural_interaction_variant	TSPO2
structural_interaction_variant	TSPO2
structural_interaction_variant	APOBEC2
structural_interaction_variant	APOBEC2
stop_gained	NFYA
structural_interaction_variant	TREM2
structural_interaction_variant	TREM1
structural_interaction_variant	TREM1
structural_interaction_variant	NCR2
structural_interaction_variant	NCR2
frameshift_variant	NCR2
structural_interaction_variant	FOXP4
structural_interaction_variant	FOXP4
missense_variant&splice_region_variant	MDFI
structural_interaction_variant	TFEB
structural_interaction_variant	TFEB
structural_interaction_variant	TFEB
structural_interaction_variant	PGC
structural_interaction_variant	PGC
structural_interaction_variant	PGC
structural_interaction_variant	FRS3
structural_interaction_variant	PRICKLE4
structural_interaction_variant	TOMM6
structural_interaction_variant	USP49
structural_interaction_variant	USP49
structural_interaction_variant	USP49
structural_interaction_variant	USP49
structural_interaction_variant	BYSL
structural_interaction_variant	C6orf132
stop_gained	GUCA1A
structural_interaction_variant	GUCA1B
structural_interaction_variant	GUCA1B
structural_interaction_variant	GUCA1B
structural_interaction_variant	GUCA1B
frameshift_variant	MRPS10
structural_interaction_variant	MRPS10
structural_interaction_variant	TRERF1
structural_interaction_variant	TRERF1
structural_interaction_variant	TRERF1

stop_gained	UBR2
missense_variant&splice_region_variant	UBR2
structural_interaction_variant	UBR2
structural_interaction_variant	TBCC
structural_interaction_variant	TBCC
structural_interaction_variant	TBCC
structural_interaction_variant	GLTSCR1L
structural_interaction_variant	PTCRA
stop_gained	RRP36
stop_gained	RRP36
stop_gained	RRP36
structural_interaction_variant	MRPL2
structural_interaction_variant	MRPL2
structural_interaction_variant	MRPL2
structural_interaction_variant	PTK7
structural_interaction_variant	PTK7
structural_interaction_variant	PTK7
structural_interaction_variant	PTK7
structural_interaction_variant	SRF
structural_interaction_variant	CUL9
structural_interaction_variant	CUL9
structural_interaction_variant	CUL9
structural_interaction_variant	CUL9
structural_interaction_variant	CUL9
structural_interaction_variant	CUL9
structural_interaction_variant	CUL9
structural_interaction_variant	CUL9
structural_interaction_variant	CUL9
structural_interaction_variant	DNPH1
structural_interaction_variant	TTBK1
missense_variant&splice_region_variant	CRIP3
frameshift_variant	ZNF318
stop_gained	ZNF318
structural_interaction_variant	ZNF318
structural_interaction_variant	ZNF318
structural_interaction_variant	ZNF318
structural_interaction_variant	ZNF318
structural_interaction_variant	ZNF318
structural_interaction_variant	ABCC10
structural_interaction_variant	ABCC10
structural_interaction_variant	ABCC10
structural_interaction_variant	ABCC10
structural_interaction_variant	ABCC10
structural_interaction_variant	ABCC10
structural_interaction_variant	ABCC10
structural_interaction_variant	ABCC10
structural_interaction_variant	DLK2
structural_interaction_variant	DLK2

structural_interaction_variant	DLK2
structural_interaction_variant	DLK2
structural_interaction_variant	TJAP1
structural_interaction_variant	LRRC73
structural_interaction_variant	MAD2L1BP
structural_interaction_variant	MAD2L1BP
structural_interaction_variant	MAD2L1BP
structural_interaction_variant	MRPS18A
structural_interaction_variant	TMEM63B
structural_interaction_variant	TMEM63B
splice_acceptor_variant&intron_variant	CAPN11
structural_interaction_variant	CAPN11
structural_interaction_variant	SLC29A1
structural_interaction_variant	HSP90AB1
structural_interaction_variant	SLC35B2
structural_interaction_variant	SLC35B2
structural_interaction_variant	SLC35B2
structural_interaction_variant	SLC35B2
structural_interaction_variant	AARS2
stop_gained	AARS2
missense_variant&splice_region_variant	AARS2
frameshift_variant	SPATS1
missense_variant&splice_region_variant	SUPT3H
structural_interaction_variant	SUPT3H
structural_interaction_variant	ENPP4
structural_interaction_variant	ENPP4
structural_interaction_variant	ENPP5
structural_interaction_variant	RCAN2
structural_interaction_variant	CYP39A1
stop_gained&splice_region_variant	SLC25A27
structural_interaction_variant	SLC25A27
structural_interaction_variant	TDRD6
structural_interaction_variant	TDRD6
structural_interaction_variant	TDRD6
structural_interaction_variant	TDRD6
structural_interaction_variant	TDRD6
structural_interaction_variant	TDRD6
structural_interaction_variant	TDRD6
structural_interaction_variant	TDRD6
structural_interaction_variant	TDRD6
structural_interaction_variant	PLA2G7
splice_acceptor_variant&intron_variant	MEP1A
structural_interaction_variant	GPR116
structural_interaction_variant	GPR116
structural_interaction_variant	GPR116
structural_interaction_variant	GPR110
structural_interaction_variant	GPR110
structural_interaction_variant	GPR110

structural_interaction_variant	GPR110
structural_interaction_variant	GPR110
structural_interaction_variant	GPR110
stop_gained	GPR110
structural_interaction_variant	GPR110
structural_interaction_variant	TNFRSF21
structural_interaction_variant	TNFRSF21
structural_interaction_variant	CD2AP
structural_interaction_variant	CD2AP
structural_interaction_variant	CD2AP
structural_interaction_variant	GPR111
structural_interaction_variant	GPR111
structural_interaction_variant	GPR111
structural_interaction_variant	GPR115
structural_interaction_variant	GPR115
structural_interaction_variant	GPR115
structural_interaction_variant	GPR115
structural_interaction_variant	PTCHD4
structural_interaction_variant	PTCHD4
structural_interaction_variant	PTCHD4
structural_interaction_variant	MUT
structural_interaction_variant	MUT
structural_interaction_variant	MUT
structural_interaction_variant	CRISP2
structural_interaction_variant	CRISP3
structural_interaction_variant	CRISP3
structural_interaction_variant	PGK2
structural_interaction_variant	PGK2
structural_interaction_variant	CRISP1
structural_interaction_variant	CRISP1
structural_interaction_variant	CRISP1
frameshift_variant	DEFB114
structural_interaction_variant	DEFB113
structural_interaction_variant	DEFB113
structural_interaction_variant	TFAP2D
structural_interaction_variant	PKHD1
structural_interaction_variant	PKHD1
structural_interaction_variant	PKHD1
structural_interaction_variant	IL17A
structural_interaction_variant	IL17F
structural_interaction_variant	MCM3
structural_interaction_variant	MCM3
structural_interaction_variant	MCM3
structural_interaction_variant	PAQR8
structural_interaction_variant	PAQR8
structural_interaction_variant	PAQR8
structural_interaction_variant	PAQR8
structural_interaction_variant	EFHC1

splice_acceptor_variant&intron_variant	EFHC1
structural_interaction_variant	EFHC1
structural_interaction_variant	GSTA3
structural_interaction_variant	ICK
structural_interaction_variant	ICK
structural_interaction_variant	GCM1
structural_interaction_variant	ELOVL5
structural_interaction_variant	GCLC
structural_interaction_variant	GCLC
structural_interaction_variant	KLHL31
structural_interaction_variant	LRRC1
structural_interaction_variant	MLIP
missense_variant&splice_region_variant	MLIP
missense_variant&splice_region_variant	TINAG
structural_interaction_variant	TINAG
structural_interaction_variant	FAM83B
structural_interaction_variant	FAM83B
structural_interaction_variant	FAM83B
structural_interaction_variant	FAM83B
structural_interaction_variant	HCRTR2
structural_interaction_variant	GFRAL
missense_variant&splice_region_variant	GFRAL
structural_interaction_variant	GFRAL
stop_gained	HMGCLL1
structural_interaction_variant	BMP5
structural_interaction_variant	COL21A1
structural_interaction_variant	COL21A1
structural_interaction_variant	COL21A1
structural_interaction_variant	COL21A1
structural_interaction_variant	COL21A1
missense_variant&splice_region_variant	COL21A1
structural_interaction_variant	COL21A1
structural_interaction_variant	COL21A1
structural_interaction_variant	COL21A1
structural_interaction_variant	COL21A1
structural_interaction_variant	COL21A1
structural_interaction_variant	DST
structural_interaction_variant	DST
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structural_interaction_variant	DST
structural_interaction_variant	DST
structural_interaction_variant	DST
structural_interaction_variant	DST
structural_interaction_variant	DST
stop_gained	DST
structural_interaction_variant	DST
structural_interaction_variant	DST

structural_interaction_variant	DST
structural_interaction_variant	BEND6
structural_interaction_variant	BEND6
structural_interaction_variant	BEND6
structural_interaction_variant	KIAA1586
structural_interaction_variant	ZNF451
structural_interaction_variant	ZNF451
structural_interaction_variant	ZNF451
structural_interaction_variant	ZNF451
structural_interaction_variant	ZNF451
structural_interaction_variant	ZNF451
structural_interaction_variant	RAB23
stop_gained	PRIM2
structural_interaction_variant	PRIM2
splice_donor_variant&intron_variant	PRIM2
structural_interaction_variant	PRIM2
structural_interaction_variant	PRIM2
structural_interaction_variant	PRIM2
frameshift_variant	PRIM2
stop_gained	PRIM2
splice_donor_variant&intron_variant	PRIM2
structural_interaction_variant	KHDRBS2
structural_interaction_variant	KHDRBS2
structural_interaction_variant	KHDRBS2
structural_interaction_variant	FKBP1C
structural_interaction_variant	PTP4A1
frameshift_variant	EYS
stop_gained	EYS
stop_gained	EYS
structural_interaction_variant	BAI3
structural_interaction_variant	BAI3
structural_interaction_variant	BAI3
structural_interaction_variant	BAI3
structural_interaction_variant	BAI3
structural_interaction_variant	BAI3
stop_gained	LMBRD1
stop_gained	COL19A1
structural_interaction_variant	COL19A1
structural_interaction_variant	COL19A1
structural_interaction_variant	COL19A1
structural_interaction_variant	FAM135A
structural_interaction_variant	FAM135A
structural_interaction_variant	FAM135A
structural_interaction_variant	SMAP1
missense_variant&splice_region_variant	KCNQ5
structural_interaction_variant	KHDC1L
structural_interaction_variant	RP11-257K9.8
missense_variant&splice_region_variant	DPPA5

structural_interaction_variant	KHDC3L
structural_interaction_variant	OOEP
frameshift_variant	DDX43
stop_gained	DDX43
structural_interaction_variant	DDX43
structural_interaction_variant	MTO1
structural_interaction_variant	MTO1
stop_gained	MTO1
structural_interaction_variant	SLC17A5
structural_interaction_variant	CD109
structural_interaction_variant	CD109
structural_interaction_variant	CD109
frameshift_variant	CD109
structural_interaction_variant	CD109
structural_interaction_variant	CD109
structural_interaction_variant	CD109
structural_interaction_variant	CD109
missense_variant&splice_region_variant	CD109
structural_interaction_variant	FILIP1
structural_interaction_variant	FILIP1
structural_interaction_variant	FILIP1
structural_interaction_variant	FILIP1
structural_interaction_variant	FILIP1
structural_interaction_variant	FILIP1
structural_interaction_variant	FILIP1
stop_gained	FILIP1
structural_interaction_variant	SENP6
structural_interaction_variant	SENP6
structural_interaction_variant	SENP6
structural_interaction_variant	SENP6
structural_interaction_variant	SENP6
structural_interaction_variant	MYO6
structural_interaction_variant	IMPG1
stop_gained	IMPG1
stop_gained	IMPG1
structural_interaction_variant	HTR1B
structural_interaction_variant	HTR1B
structural_interaction_variant	HTR1B
structural_interaction_variant	HTR1B
structural_interaction_variant	HTR1B
structural_interaction_variant	HTR1B
structural_interaction_variant	IRAK1BP1
missense_variant&splice_region_variant	HMGN3
structural_interaction_variant	HMGN3
frameshift_variant	LCA5
stop_gained	LCA5
stop_gained	LCA5
structural_interaction_variant	LCA5

stop_gained	SH3BGRL2
structural_interaction_variant	TTK
structural_interaction_variant	TTK
structural_interaction_variant	TTK
structural_interaction_variant	TTK
frameshift_variant	TTK
structural_interaction_variant	IBTK
missense_variant&splice_region_variant	IBTK
missense_variant&splice_region_variant	IBTK
structural_interaction_variant	TPBG
structural_interaction_variant	TPBG
structural_interaction_variant	TPBG
missense_variant&splice_region_variant	UBE3D
structural_interaction_variant	UBE3D
structural_interaction_variant	UBE3D
structural_interaction_variant	UBE3D
splice_donor_variant&intron_variant	UBE3D
structural_interaction_variant	DOPEY1
structural_interaction_variant	DOPEY1
structural_interaction_variant	DOPEY1
structural_interaction_variant	DOPEY1
structural_interaction_variant	DOPEY1
structural_interaction_variant	DOPEY1
structural_interaction_variant	DOPEY1
structural_interaction_variant	PGM3
structural_interaction_variant	RWDD2A
stop_gained	ME1
structural_interaction_variant	ME1
structural_interaction_variant	PRSS35
structural_interaction_variant	PRSS35
structural_interaction_variant	PRSS35
structural_interaction_variant	SNAP91
structural_interaction_variant	SNAP91
frameshift_variant	CYB5R4
structural_interaction_variant	CYB5R4
structural_interaction_variant	CYB5R4
structural_interaction_variant	KIAA1009
structural_interaction_variant	KIAA1009
structural_interaction_variant	KIAA1009
structural_interaction_variant	KIAA1009
structural_interaction_variant	KIAA1009
stop_gained	KIAA1009
stop_gained	KIAA1009
structural_interaction_variant	KIAA1009
structural_interaction_variant	KIAA1009
structural_interaction_variant	KIAA1009
structural_interaction_variant	KIAA1009
structural_interaction_variant	KIAA1009

conservative_inframe_deletion	KIAA1009
structural_interaction_variant	HTR1E
structural_interaction_variant	ZNF292
structural_interaction_variant	ZNF292
structural_interaction_variant	ZNF292
structural_interaction_variant	ZNF292
structural_interaction_variant	ZNF292
structural_interaction_variant	RP1-102H19.8
structural_interaction_variant	SMIM8
structural_interaction_variant	C6orf163
stop_gained	C6ORF165
stop_gained	C6ORF165
structural_interaction_variant	C6orf165
structural_interaction_variant	RARS2
structural_interaction_variant	RARS2
structural_interaction_variant	RARS2
structural_interaction_variant	RARS2
structural_interaction_variant	RARS2
stop_gained	ORC3
structural_interaction_variant	ORC3
structural_interaction_variant	ORC3
structural_interaction_variant	ORC3
structural_interaction_variant	ORC3
structural_interaction_variant	ORC3
structural_interaction_variant	SPACA1
structural_interaction_variant	SPACA1
structural_interaction_variant	SPACA1
structural_interaction_variant	CNR1
structural_interaction_variant	RNGTT
structural_interaction_variant	RNGTT
structural_interaction_variant	PNRC1
structural_interaction_variant	PNRC1
structural_interaction_variant	SRSF12
structural_interaction_variant	SRSF12
structural_interaction_variant	GABRR1
frameshift_variant	GABRR1
structural_interaction_variant	GABRR2
structural_interaction_variant	RRAGD
structural_interaction_variant	LYRM2
structural_interaction_variant	MDN1
structural_interaction_variant	MDN1
structural_interaction_variant	MDN1
structural_interaction_variant	MDN1
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structural_interaction_variant	MDN1
structural_interaction_variant	MDN1
structural_interaction_variant	MDN1
structural_interaction_variant	GJA10
structural_interaction_variant	BACH2
structural_interaction_variant	BACH2
structural_interaction_variant	BACH2
structural_interaction_variant	MAP3K7
structural_interaction_variant	EPHA7
structural_interaction_variant	EPHA7
structural_interaction_variant	EPHA7
structural_interaction_variant	MANEA
structural_interaction_variant	FUT9
structural_interaction_variant	UFL1
stop_gained	UFL1
structural_interaction_variant	UFL1
structural_interaction_variant	UFL1
structural_interaction_variant	UFL1
structural_interaction_variant	UFL1
structural_interaction_variant	UFL1
structural_interaction_variant	FHL5
structural_interaction_variant	FHL5
missense_variant&splice_region_variant	FHL5
stop_gained	FHL5
structural_interaction_variant	FHL5
structural_interaction_variant	GPR63
structural_interaction_variant	GPR63
structural_interaction_variant	GPR63
structural_interaction_variant	KLHL32
structural_interaction_variant	KLHL32
structural_interaction_variant	KLHL32
structural_interaction_variant	MMS22L
structural_interaction_variant	MMS22L
structural_interaction_variant	MMS22L
structural_interaction_variant	MMS22L
structural_interaction_variant	MMS22L
structural_interaction_variant	MMS22L
structural_interaction_variant	POU3F2
structural_interaction_variant	POU3F2
structural_interaction_variant	POU3F2

structural_interaction_variant	COQ3
structural_interaction_variant	PNISR
structural_interaction_variant	PNISR
structural_interaction_variant	PNISR
structural_interaction_variant	PNISR
structural_interaction_variant	PNISR
structural_interaction_variant	CCNC
structural_interaction_variant	PRDM13
structural_interaction_variant	PRDM13
structural_interaction_variant	PRDM13
structural_interaction_variant	MCHR2
splice_acceptor_variant&intron_variant	MCHR2
structural_interaction_variant	MCHR2
structural_interaction_variant	MCHR2
structural_interaction_variant	MCHR2
stop_gained	ASCC3
structural_interaction_variant	ASCC3
structural_interaction_variant	ASCC3
structural_interaction_variant	ASCC3
structural_interaction_variant	ASCC3
structural_interaction_variant	ASCC3
frameshift_variant&splice_region_variant	ASCC3
structural_interaction_variant	ASCC3
missense_variant&splice_region_variant	ASCC3
structural_interaction_variant	ASCC3
structural_interaction_variant	GRIK2
structural_interaction_variant	GRIK2
structural_interaction_variant	BVES
splice_donor_variant&intron_variant	PREP
structural_interaction_variant	PRDM1
structural_interaction_variant	ATG5
structural_interaction_variant	AIM1
structural_interaction_variant	AIM1
structural_interaction_variant	AIM1
structural_interaction_variant	AIM1
structural_interaction_variant	AIM1
structural_interaction_variant	AIM1
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structural_interaction_variant	AIM1
structural_interaction_variant	AIM1
structural_interaction_variant	AIM1
structural_interaction_variant	AIM1
structural_interaction_variant	RTN4IP1
structural_interaction_variant	RTN4IP1
structural_interaction_variant	QRSL1
structural_interaction_variant	QRSL1
structural_interaction_variant	BEND3
structural_interaction_variant	PDSS2

structural_interaction_variant	PDSS2
structural_interaction_variant	SOBP
structural_interaction_variant	SCML4
structural_interaction_variant	SCML4
structural_interaction_variant	NR2E1
structural_interaction_variant	NR2E1
structural_interaction_variant	NR2E1
structural_interaction_variant	ARMC2
structural_interaction_variant	ARMC2
splice_donor_variant&intron_variant	ARMC2
structural_interaction_variant	SESN1
splice_acceptor_variant&intron_variant	SESN1
structural_interaction_variant	SESN1
splice_acceptor_variant&intron_variant	CCDC162P
structural_interaction_variant	CD164
structural_interaction_variant	PPIL6
structural_interaction_variant	SMPD2
structural_interaction_variant	SMPD2
structural_interaction_variant	SMPD2
stop_gained	MICAL1
structural_interaction_variant	MICAL1
stop_gained	MICAL1
structural_interaction_variant	ZBTB24
structural_interaction_variant	ZBTB24
structural_interaction_variant	AK9
structural_interaction_variant	AK9
structural_interaction_variant	AK9
structural_interaction_variant	AK9
stop_gained	GPR6
structural_interaction_variant	WASF1
splice_donor_variant&intron_variant	CDC40
structural_interaction_variant	CDC40
structural_interaction_variant	METTL24
structural_interaction_variant	METTL24
structural_interaction_variant	DDO
structural_interaction_variant	SLC22A16
structural_interaction_variant	SLC22A16
missense_variant&splice_region_variant	SLC22A16
stop_gained	SLC22A16
structural_interaction_variant	SLC22A16
structural_interaction_variant	SLC22A16
structural_interaction_variant	CDK19
structural_interaction_variant	AMD1
structural_interaction_variant	GTF3C6
structural_interaction_variant	SLC16A10
structural_interaction_variant	SLC16A10
structural_interaction_variant	KIAA1919
structural_interaction_variant	KIAA1919

frameshift_variant	KIAA1919
structural_interaction_variant	REV3L
structural_interaction_variant	REV3L
structural_interaction_variant	FYN
frameshift_variant	TUBE1
structural_interaction_variant	LAMA4
structural_interaction_variant	RFPL4B
structural_interaction_variant	RFPL4B
structural_interaction_variant	RFPL4B
structural_interaction_variant	HDAC2
stop_gained	FRK
structural_interaction_variant	FRK
stop_gained	COL10A1
frameshift_variant	COL10A1
structural_interaction_variant	NT5DC1
structural_interaction_variant	TSPYL4
structural_interaction_variant	TSPYL4
structural_interaction_variant	TSPYL1
structural_interaction_variant	DSE
structural_interaction_variant	DSE
structural_interaction_variant	FAM26F
structural_interaction_variant	FAM26F
structural_interaction_variant	FAM26E
structural_interaction_variant	FAM26E
stop_gained	FAM26E
stop_gained	FAM26D
structural_interaction_variant	RSPH4A
splice_donor_variant&intron_variant	ZUFSP
missense_variant&splice_region_variant	ZUFSP
stop_gained	ZUFSP
structural_interaction_variant	FAM162B
structural_interaction_variant	GPRC6A
structural_interaction_variant	GPRC6A
structural_interaction_variant	GPRC6A
structural_interaction_variant	GPRC6A
structural_interaction_variant	GPRC6A
structural_interaction_variant	GPRC6A
structural_interaction_variant	GPRC6A
structural_interaction_variant	RFX6
stop_gained	RFX6
structural_interaction_variant	ROS1
structural_interaction_variant	ROS1
structural_interaction_variant	ROS1
stop_gained	ROS1
structural_interaction_variant	ROS1
missense_variant&splice_region_variant	ROS1
splice_donor_variant&intron_variant	ROS1
structural_interaction_variant	ROS1

structural_interaction_variant	ROS1
structural_interaction_variant	ROS1
structural_interaction_variant	ROS1
structural_interaction_variant	ROS1
stop_gained	ROS1
splice_donor_variant&intron_variant	ROS1
structural_interaction_variant	ROS1
structural_interaction_variant	ROS1
structural_interaction_variant	ROS1
structural_interaction_variant	DCBLD1
frameshift_variant	DCBLD1
structural_interaction_variant	GOPC
structural_interaction_variant	GOPC
structural_interaction_variant	GOPC
structural_interaction_variant	SLC35F1
structural_interaction_variant	CEP85L
missense_variant&splice_region_variant	CEP85L
structural_interaction_variant	CEP85L
structural_interaction_variant	CEP85L
frameshift_variant	CEP85L
stop_gained	MCM9
protein_protein_contact	ASF1A
structural_interaction_variant	FAM184A
structural_interaction_variant	FAM184A
structural_interaction_variant	MAN1A1
structural_interaction_variant	MAN1A1
structural_interaction_variant	MAN1A1
structural_interaction_variant	TBC1D32
structural_interaction_variant	TBC1D32
structural_interaction_variant	TBC1D32
splice_acceptor_variant&intron_variant	TBC1D32
splice_acceptor_variant&intron_variant	TBC1D32
structural_interaction_variant	TBC1D32
structural_interaction_variant	TBC1D32
structural_interaction_variant	TBC1D32
structural_interaction_variant	TBC1D32
structural_interaction_variant	TBC1D32
structural_interaction_variant	TBC1D32
structural_interaction_variant	HSF2
stop_gained	SERINC1
structural_interaction_variant	SERINC1
structural_interaction_variant	FABP7
splice_donor_variant&intron_variant	SMPDL3A
structural_interaction_variant	SMPDL3A
stop_gained	SMPDL3A
structural_interaction_variant	SMPDL3A
stop_gained	SMPDL3A
structural_interaction_variant	CLVS2

structural_interaction_variant	NKAIN2
frameshift_variant	RNF217
structural_interaction_variant	RNF217
structural_interaction_variant	RNF217
structural_interaction_variant	TPD52L1
structural_interaction_variant	TPD52L1
structural_interaction_variant	TPD52L1
structural_interaction_variant	HEY2
structural_interaction_variant	HEY2
structural_interaction_variant	HINT3
structural_interaction_variant	RSPO3
structural_interaction_variant	ECHDC1
structural_interaction_variant	ECHDC1
splice_acceptor_variant&intron_variant	ECHDC1
structural_interaction_variant	KIAA0408
frameshift_variant	KIAA0408
structural_interaction_variant	KIAA0408
structural_interaction_variant	KIAA0408
structural_interaction_variant	KIAA0408
structural_interaction_variant	SOGA3
structural_interaction_variant	C6orf58
structural_interaction_variant	C6orf58
structural_interaction_variant	THEMIS
structural_interaction_variant	THEMIS
structural_interaction_variant	THEMIS
structural_interaction_variant	THEMIS
structural_interaction_variant	PTPRK
structural_interaction_variant	PTPRK
structural_interaction_variant	LAMA2
stop_gained	LAMA2
frameshift_variant	LAMA2
structural_interaction_variant	LAMA2
structural_interaction_variant	LAMA2
structural_interaction_variant	LAMA2
structural_interaction_variant	LAMA2
structural_interaction_variant	LAMA2
structural_interaction_variant	LAMA2
structural_interaction_variant	LAMA2
structural_interaction_variant	ARHGAP18
stop_gained	ARHGAP18
structural_interaction_variant	ARHGAP18
structural_interaction_variant	ARHGAP18
structural_interaction_variant	L3MBTL3
structural_interaction_variant	L3MBTL3
structural_interaction_variant	SAMD3
structural_interaction_variant	TMEM200A
structural_interaction_variant	TMEM200A
structural_interaction_variant	EPB41L2

structural_interaction_variant	EPB41L2
structural_interaction_variant	EPB41L2
structural_interaction_variant	EPB41L2
structural_interaction_variant	EPB41L2
structural_interaction_variant	EPB41L2
structural_interaction_variant	AKAP7
structural_interaction_variant	ARG1
structural_interaction_variant	ENPP3
splice_donor_variant&intron_variant	ENPP3
structural_interaction_variant	ENPP3
frameshift_variant	ENPP3
structural_interaction_variant	ENPP3
structural_interaction_variant	ENPP1
structural_interaction_variant	CTGF
structural_interaction_variant	CTGF
structural_interaction_variant	CTGF
structural_interaction_variant	CTGF
frameshift_variant	MOXD1
structural_interaction_variant	STX7
structural_interaction_variant	TAAR9
structural_interaction_variant	TAAR9
structural_interaction_variant	TAAR9
structural_interaction_variant	TAAR9
structural_interaction_variant	TAAR9
structural_interaction_variant	TAAR8
frameshift_variant	TAAR6
stop_gained	TAAR6
stop_gained	TAAR6
structural_interaction_variant	TAAR5
structural_interaction_variant	TAAR5
stop_gained	TAAR5
structural_interaction_variant	TAAR5
structural_interaction_variant	TAAR5
structural_interaction_variant	TAAR5
structural_interaction_variant	TAAR1
structural_interaction_variant	VNN1
structural_interaction_variant	VNN1
stop_gained	VNN1
structural_interaction_variant	VNN1
structural_interaction_variant	VNN1
structural_interaction_variant	VNN2
structural_interaction_variant	VNN2
structural_interaction_variant	VNN2
structural_interaction_variant	VNN2
structural_interaction_variant	SLC18B1
structural_interaction_variant	SLC18B1
structural_interaction_variant	RPS12
structural_interaction_variant	TCF21

missense_variant&splice_region_variant	SLC2A12
structural_interaction_variant	SLC2A12
structural_interaction_variant	SLC2A12
structural_interaction_variant	SGK1
structural_interaction_variant	SGK1
structural_interaction_variant	SGK1
structural_interaction_variant	SGK1
structural_interaction_variant	ALDH8A1
structural_interaction_variant	ALDH8A1
structural_interaction_variant	ALDH8A1
structural_interaction_variant	ALDH8A1
structural_interaction_variant	ALDH8A1
structural_interaction_variant	MYB
structural_interaction_variant	MYB
structural_interaction_variant	MYB
structural_interaction_variant	MYB
structural_interaction_variant	AHI1
frameshift_variant&splice_region_variant	AHI1
structural_interaction_variant	PDE7B
structural_interaction_variant	MTFR2
stop_gained	MTFR2
structural_interaction_variant	BCLAF1
structural_interaction_variant	BCLAF1
structural_interaction_variant	BCLAF1
structural_interaction_variant	MAP7
structural_interaction_variant	MAP7
structural_interaction_variant	MAP7
structural_interaction_variant	MAP7
structural_interaction_variant	MAP3K5
structural_interaction_variant	MAP3K5
structural_interaction_variant	MAP3K5
structural_interaction_variant	MAP3K5
structural_interaction_variant	MAP3K5
structural_interaction_variant	MAP3K5
structural_interaction_variant	MAP3K5
stop_gained	SLC35D3
structural_interaction_variant	IL20RA
missense_variant&splice_region_variant	IL20RA
structural_interaction_variant	IL22RA2
frameshift_variant	IFNGR1
frameshift_variant	IFNGR1
frameshift_variant	IFNGR1
frameshift_variant	IFNGR1
structural_interaction_variant	IFNGR1
structural_interaction_variant	IFNGR1
structural_interaction_variant	IFNGR1
frameshift_variant	IFNGR1
structural_interaction_variant	TNFAIP3

structural_interaction_variant	PERP
structural_interaction_variant	KIAA1244
structural_interaction_variant	KIAA1244
structural_interaction_variant	KIAA1244
structural_interaction_variant	KIAA1244
structural_interaction_variant	KIAA1244
structural_interaction_variant	KIAA1244
structural_interaction_variant	KIAA1244
structural_interaction_variant	KIAA1244
structural_interaction_variant	HEBP2
structural_interaction_variant	HEBP2
structural_interaction_variant	NHSL1
structural_interaction_variant	NHSL1
structural_interaction_variant	CCDC28A
structural_interaction_variant	CCDC28A
structural_interaction_variant	REPS1
structural_interaction_variant	REPS1
structural_interaction_variant	HECA
disruptive_inframe_deletion	TXLNB
frameshift_variant	TXLNB
structural_interaction_variant	TXLNB
structural_interaction_variant	TXLNB
structural_interaction_variant	TXLNB
frameshift_variant	TXLNB
structural_interaction_variant	TXLNB
structural_interaction_variant	TXLNB
structural_interaction_variant	NMBR
structural_interaction_variant	NMBR
structural_interaction_variant	NMBR
structural_interaction_variant	NMBR
structural_interaction_variant	VTA1
structural_interaction_variant	GPR126
frameshift_variant	GPR126
structural_interaction_variant	GPR126
structural_interaction_variant	GPR126
structural_interaction_variant	HIVEP2
structural_interaction_variant	AIG1
structural_interaction_variant	ADAT2
structural_interaction_variant	ADAT2
structural_interaction_variant	PEX3
missense_variant&splice_region_variant	PHACTR2
structural_interaction_variant	PHACTR2
structural_interaction_variant	PHACTR2
structural_interaction_variant	PHACTR2
structural_interaction_variant	LTV1
missense_variant&splice_region_variant	ZC2HC1B
structural_interaction_variant	PLAGL1
structural_interaction_variant	UTRN

structural_interaction_variant	UTRN
structural_interaction_variant	UTRN
structural_interaction_variant	UTRN
conservative_inframe_deletion	UTRN
structural_interaction_variant	UTRN
structural_interaction_variant	UTRN
structural_interaction_variant	UTRN
structural_interaction_variant	UTRN
structural_interaction_variant	UTRN
structural_interaction_variant	UTRN
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structural_interaction_variant	UTRN
structural_interaction_variant	UTRN
frameshift_variant	UTRN
structural_interaction_variant	UTRN
structural_interaction_variant	UTRN
splice_acceptor_variant&intron_variant	UTRN
structural_interaction_variant	FBXO30
structural_interaction_variant	FBXO30
structural_interaction_variant	FBXO30
frameshift_variant	FBXO30
structural_interaction_variant	SHPRH
structural_interaction_variant	SHPRH
structural_interaction_variant	SHPRH
structural_interaction_variant	SHPRH
structural_interaction_variant	SHPRH
structural_interaction_variant	GRM1
structural_interaction_variant	GRM1
structural_interaction_variant	RAB32
structural_interaction_variant	RAB32
structural_interaction_variant	RAB32
structural_interaction_variant	ADGB
structural_interaction_variant	ADGB
structural_interaction_variant	ADGB
stop_gained	ADGB
structural_interaction_variant	ADGB
structural_interaction_variant	ADGB
structural_interaction_variant	ADGB
structural_interaction_variant	ADGB
structural_interaction_variant	ADGB
structural_interaction_variant	ADGB
structural_interaction_variant	ADGB

structural_interaction_variant	STXBP5
structural_interaction_variant	SASH1
structural_interaction_variant	SASH1
structural_interaction_variant	UST
stop_gained	UST
structural_interaction_variant	SUMO4
frameshift_variant&splice_region_variant	PPIL4
structural_interaction_variant	PPIL4
structural_interaction_variant	PPIL4
structural_interaction_variant	GINM1
structural_interaction_variant	KATNA1
structural_interaction_variant	LATS1
structural_interaction_variant	LATS1
structural_interaction_variant	LATS1
structural_interaction_variant	LATS1
structural_interaction_variant	LATS1
structural_interaction_variant	LATS1
structural_interaction_variant	RAET1E
structural_interaction_variant	RAET1E
structural_interaction_variant	RAET1E
structural_interaction_variant	RAET1G
structural_interaction_variant	RAET1G
structural_interaction_variant	RAET1G
start_lost	ULBP2
structural_interaction_variant	ULBP3
structural_interaction_variant	ULBP3
structural_interaction_variant	PLEKHG1
structural_interaction_variant	PLEKHG1
structural_interaction_variant	PLEKHG1
structural_interaction_variant	MTHFD1L
structural_interaction_variant	MTHFD1L
structural_interaction_variant	MTHFD1L
structural_interaction_variant	MTHFD1L
structural_interaction_variant	MTHFD1L
missense_variant&splice_region_variant	MTHFD1L
structural_interaction_variant	AKAP12
structural_interaction_variant	AKAP12
structural_interaction_variant	AKAP12
structural_interaction_variant	AKAP12
structural_interaction_variant	AKAP12
structural_interaction_variant	AKAP12
structural_interaction_variant	AKAP12
structural_interaction_variant	AKAP12
structural_interaction_variant	AKAP12
structural_interaction_variant	AKAP12
structural_interaction_variant	ZBTB2
structural_interaction_variant	ZBTB2
structural_interaction_variant	ZBTB2

structural_interaction_variant	C6orf211
structural_interaction_variant	CCDC170
structural_interaction_variant	CCDC170
stop_gained	SYNE1
stop_gained	SYNE1
structural_interaction_variant	MYCT1
structural_interaction_variant	MYCT1
frameshift_variant	VIP
structural_interaction_variant	FBXO5
structural_interaction_variant	FBXO5
structural_interaction_variant	FBXO5
structural_interaction_variant	FBXO5
structural_interaction_variant	MTRF1L
structural_interaction_variant	OPRM1
structural_interaction_variant	OPRM1
structural_interaction_variant	OPRM1
structural_interaction_variant	OPRM1
structural_interaction_variant	OPRM1
structural_interaction_variant	IPCEF1
structural_interaction_variant	IPCEF1
structural_interaction_variant	IPCEF1
structural_interaction_variant	CNKSR3
structural_interaction_variant	CNKSR3
structural_interaction_variant	CNKSR3
structural_interaction_variant	CNKSR3
missense_variant&splice_region_variant	CNKSR3
structural_interaction_variant	CNKSR3
structural_interaction_variant	SCAF8
structural_interaction_variant	SCAF8
frameshift_variant&splice_region_variant	SCAF8
missense_variant&splice_region_variant	SCAF8
structural_interaction_variant	SCAF8
structural_interaction_variant	SCAF8
frameshift_variant	TIAM2
structural_interaction_variant	TIAM2
structural_interaction_variant	TIAM2
structural_interaction_variant	TIAM2
structural_interaction_variant	TIAM2
structural_interaction_variant	TIAM2
structural_interaction_variant	TIAM2
structural_interaction_variant	TIAM2
structural_interaction_variant	TIAM2
frameshift_variant	TFB1M
structural_interaction_variant	CLDN20
structural_interaction_variant	NOX3
stop_gained	NOX3
stop_gained	NOX3
structural_interaction_variant	NOX3

structural_interaction_variant	NOX3
structural_interaction_variant	ARID1B
structural_interaction_variant	ARID1B
structural_interaction_variant	ARID1B
stop_gained	ZDHHC14
structural_interaction_variant	SNX9
structural_interaction_variant	SNX9
structural_interaction_variant	SYNJ2
structural_interaction_variant	SYNJ2
structural_interaction_variant	SYNJ2
structural_interaction_variant	SYNJ2
structural_interaction_variant	SYNJ2
missense_variant&splice_region_variant	SYNJ2
structural_interaction_variant	SYNJ2
disruptive_inframe_deletion	SYNJ2
structural_interaction_variant	SYNJ2
structural_interaction_variant	SYNJ2
frameshift_variant	SYNJ2
structural_interaction_variant	SYNJ2
structural_interaction_variant	SYNJ2
stop_gained	SYNJ2
missense_variant&splice_region_variant	SERAC1
structural_interaction_variant	TULP4
structural_interaction_variant	TULP4
structural_interaction_variant	TULP4
structural_interaction_variant	TULP4
frameshift_variant	TULP4
structural_interaction_variant	TULP4
structural_interaction_variant	TULP4
structural_interaction_variant	TULP4
structural_interaction_variant	TULP4
structural_interaction_variant	TMEM181
structural_interaction_variant	TMEM181
structural_interaction_variant	DYNLT1
missense_variant&splice_region_variant	SYTL3
frameshift_variant	SYTL3
structural_interaction_variant	SYTL3
splice_donor_variant&intron_variant	SYTL3
structural_interaction_variant	EZR
structural_interaction_variant	EZR
structural_interaction_variant	EZR
missense_variant&splice_region_variant	C6orf99
structural_interaction_variant	C6orf99
structural_interaction_variant	C6orf99
stop_gained	C6orf99
structural_interaction_variant	TAGAP
structural_interaction_variant	FNDC1
structural_interaction_variant	FNDC1

structural_interaction_variant	FNDC1
structural_interaction_variant	FNDC1
structural_interaction_variant	FNDC1
structural_interaction_variant	FNDC1
missense_variant&splice_region_variant	FNDC1
structural_interaction_variant	ACAT2
structural_interaction_variant	ACAT2
structural_interaction_variant	TCP1
structural_interaction_variant	TCP1
structural_interaction_variant	MRPL18
structural_interaction_variant	PNLDC1
stop_gained	PNLDC1
structural_interaction_variant	PNLDC1
structural_interaction_variant	PNLDC1
structural_interaction_variant	PNLDC1
structural_interaction_variant	MAS1
structural_interaction_variant	MAS1
structural_interaction_variant	IGF2R
structural_interaction_variant	IGF2R
structural_interaction_variant	IGF2R
structural_interaction_variant	IGF2R
structural_interaction_variant	IGF2R
splice_acceptor_variant&intron_variant	IGF2R
stop_gained	IGF2R
structural_interaction_variant	IGF2R
structural_interaction_variant	SLC22A1
structural_interaction_variant	SLC22A1
structural_interaction_variant	SLC22A2
frameshift_variant	SLC22A2
structural_interaction_variant	SLC22A2
structural_interaction_variant	SLC22A2
structural_interaction_variant	SLC22A2
structural_interaction_variant	SLC22A2
structural_interaction_variant	SLC22A3
structural_interaction_variant	LPA
structural_interaction_variant	LPA
stop_gained	LPA
structural_interaction_variant	LPA
structural_interaction_variant	LPA
structural_interaction_variant	MAP3K4
structural_interaction_variant	MAP3K4
stop_gained	PARK2
structural_interaction_variant	PARK2
structural_interaction_variant	PACRG
structural_interaction_variant	PACRG
structural_interaction_variant	C6orf118
structural_interaction_variant	C6orf118
structural_interaction_variant	C6orf118

structural_interaction_variant	T
structural_interaction_variant	PRR18
structural_interaction_variant	RPS6KA2
frameshift_variant	FGFR1OP
structural_interaction_variant	FGFR1OP
stop_gained	FGFR1OP
structural_interaction_variant	FGFR1OP
structural_interaction_variant	FGFR1OP
stop_gained	CCR6
structural_interaction_variant	GPR31
structural_interaction_variant	GPR31
structural_interaction_variant	GPR31
structural_interaction_variant	GPR31
frameshift_variant	TCP10L2
structural_interaction_variant	UNC93A
structural_interaction_variant	UNC93A
structural_interaction_variant	TTLL2
structural_interaction_variant	TTLL2
structural_interaction_variant	TTLL2
structural_interaction_variant	MLLT4
structural_interaction_variant	MLLT4
structural_interaction_variant	MLLT4
structural_interaction_variant	MLLT4
structural_interaction_variant	MLLT4
structural_interaction_variant	MLLT4
structural_interaction_variant	MLLT4
structural_interaction_variant	MLLT4
structural_interaction_variant	MLLT4
structural_interaction_variant	KIF25
structural_interaction_variant	KIF25
structural_interaction_variant	KIF25
structural_interaction_variant	FRMD1
structural_interaction_variant	FRMD1
structural_interaction_variant	FRMD1
structural_interaction_variant	FRMD1
structural_interaction_variant	THBS2
structural_interaction_variant	THBS2
missense_variant&splice_region_variant	THBS2
structural_interaction_variant	THBS2
structural_interaction_variant	WDR27
splice_donor_variant&intron_variant	WDR27
stop_gained	WDR27
frameshift_variant	PHF10
splice_acceptor_variant&intron_variant	PHF10
structural_interaction_variant	PHF10
stop_gained	TCTE3
splice_acceptor_variant&intron_variant	ERMARD
structural_interaction_variant	ERMARD

structural_interaction_variant	ERMARD
structural_interaction_variant	ERMARD
missense_variant&splice_region_variant	DLL1
structural_interaction_variant	FAM120B
structural_interaction_variant	FAM120B
stop_gained	FAM120B
structural_interaction_variant	TBP
structural_interaction_variant	PDCD2
structural_interaction_variant	PRKAR1B
structural_interaction_variant	HEATR2
structural_interaction_variant	HEATR2
structural_interaction_variant	HEATR2
missense_variant&splice_region_variant	HEATR2
structural_interaction_variant	HEATR2
structural_interaction_variant	SUN1
structural_interaction_variant	SUN1
missense_variant&splice_region_variant	SUN1
structural_interaction_variant	SUN1
structural_interaction_variant	SUN1
structural_interaction_variant	GET4
structural_interaction_variant	ADAP1
structural_interaction_variant	ADAP1
structural_interaction_variant	COX19
structural_interaction_variant	CYP2W1
structural_interaction_variant	CYP2W1
structural_interaction_variant	CYP2W1
structural_interaction_variant	CYP2W1
structural_interaction_variant	CYP2W1
structural_interaction_variant	CYP2W1
structural_interaction_variant	C7orf50
frameshift_variant	ZFAND2A
missense_variant&splice_region_variant	ZFAND2A
stop_gained	MICALL2
structural_interaction_variant	MICALL2
structural_interaction_variant	MICALL2
structural_interaction_variant	MICALL2
structural_interaction_variant	MICALL2
structural_interaction_variant	INTS1
structural_interaction_variant	INTS1
structural_interaction_variant	INTS1
structural_interaction_variant	INTS1
structural_interaction_variant	INTS1
structural_interaction_variant	TMEM184A
structural_interaction_variant	TMEM184A
structural_interaction_variant	TMEM184A
structural_interaction_variant	TMEM184A
structural_interaction_variant	ELFN1
structural_interaction_variant	ELFN1

structural_interaction_variant	ELFN1
structural_interaction_variant	MAD1L1
structural_interaction_variant	MAD1L1
structural_interaction_variant	NUDT1
structural_interaction_variant	SNX8
structural_interaction_variant	SNX8
structural_interaction_variant	SNX8
structural_interaction_variant	EIF3B
structural_interaction_variant	EIF3B
structural_interaction_variant	CHST12
structural_interaction_variant	CHST12
structural_interaction_variant	CHST12
structural_interaction_variant	CHST12
structural_interaction_variant	CHST12
stop_gained	CHST12
structural_interaction_variant	CHST12
structural_interaction_variant	LFNG
structural_interaction_variant	IQCE
structural_interaction_variant	IQCE
missense_variant&splice_region_variant	AMZ1
structural_interaction_variant	AMZ1
structural_interaction_variant	CARD11
structural_interaction_variant	SDK1
structural_interaction_variant	SDK1
structural_interaction_variant	SDK1
structural_interaction_variant	SDK1
structural_interaction_variant	SDK1
structural_interaction_variant	SDK1
structural_interaction_variant	SDK1
structural_interaction_variant	SDK1
structural_interaction_variant	SDK1
structural_interaction_variant	SDK1
structural_interaction_variant	FOXK1
structural_interaction_variant	FOXK1
structural_interaction_variant	FOXK1
stop_gained	RADIL
structural_interaction_variant	RADIL
structural_interaction_variant	MMD2
splice_acceptor_variant&intron_variant	RNF216P1
splice_acceptor_variant&intron_variant	RNF216P1
structural_interaction_variant	RBAK
frameshift_variant	WIPI2
structural_interaction_variant	WIPI2
structural_interaction_variant	WIPI2
structural_interaction_variant	TNRC18
structural_interaction_variant	TNRC18
structural_interaction_variant	TNRC18
structural_interaction_variant	TNRC18

structural_interaction_variant	FSCN1
structural_interaction_variant	FSCN1
structural_interaction_variant	RNF216
structural_interaction_variant	PMS2
structural_interaction_variant	AIMP2
structural_interaction_variant	EIF2AK1
structural_interaction_variant	ANKRD61
structural_interaction_variant	EIF2AK1
structural_interaction_variant	USP42
structural_interaction_variant	USP42
structural_interaction_variant	USP42
frameshift_variant	USP42
structural_interaction_variant	USP42
frameshift_variant	CYTH3
missense_variant&splice_region_variant	CYTH3
structural_interaction_variant	DAGLB
structural_interaction_variant	DAGLB
structural_interaction_variant	DAGLB
structural_interaction_variant	DAGLB
structural_interaction_variant	KDELR2
structural_interaction_variant	GRID2IP
structural_interaction_variant	ZDHHC4
structural_interaction_variant	ZDHHC4
structural_interaction_variant	C1GALT1
structural_interaction_variant	C1GALT1
structural_interaction_variant	C1GALT1
structural_interaction_variant	COL28A1
structural_interaction_variant	COL28A1
structural_interaction_variant	COL28A1
structural_interaction_variant	COL28A1
structural_interaction_variant	COL28A1
structural_interaction_variant	COL28A1
missense_variant&splice_region_variant	COL28A1
missense_variant&splice_region_variant	COL28A1
structural_interaction_variant	COL28A1
structural_interaction_variant	COL28A1
structural_interaction_variant	COL28A1
structural_interaction_variant	MIOS
missense_variant&splice_region_variant	MIOS
structural_interaction_variant	MIOS
structural_interaction_variant	RPA3
structural_interaction_variant	GLCCI1
structural_interaction_variant	GLCCI1
structural_interaction_variant	ICA1
splice_donor_variant&intron_variant	ICA1
missense_variant&splice_region_variant	ICA1
structural_interaction_variant	ICA1
structural_interaction_variant	ICA1

structural_interaction_variant	NXPH1
structural_interaction_variant	PHF14
structural_interaction_variant	PHF14
structural_interaction_variant	PHF14
missense_variant&splice_region_variant	THSD7A
structural_interaction_variant	THSD7A
structural_interaction_variant	THSD7A
structural_interaction_variant	THSD7A
structural_interaction_variant	THSD7A
structural_interaction_variant	THSD7A
structural_interaction_variant	THSD7A
structural_interaction_variant	THSD7A
structural_interaction_variant	THSD7A
structural_interaction_variant	THSD7A
structural_interaction_variant	TMEM106B
structural_interaction_variant	VWDE
structural_interaction_variant	VWDE
missense_variant&splice_region_variant	VWDE
structural_interaction_variant	VWDE
structural_interaction_variant	VWDE
structural_interaction_variant	VWDE
structural_interaction_variant	VWDE
structural_interaction_variant	SCIN
structural_interaction_variant	SCIN
structural_interaction_variant	SCIN
splice_acceptor_variant&intron_variant	SCIN
splice_acceptor_variant&intron_variant	SCIN
structural_interaction_variant	SCIN
structural_interaction_variant	SCIN
missense_variant&splice_region_variant	SCIN
splice_donor_variant&intron_variant	SCIN
structural_interaction_variant	ETV1
structural_interaction_variant	AGMO
structural_interaction_variant	AGMO
splice_donor_variant&intron_variant	AGMO
structural_interaction_variant	AGMO
frameshift_variant&splice_region_variant	AGMO
structural_interaction_variant	MEOX2
stop_gained	ISPD
structural_interaction_variant	LRRC72
structural_interaction_variant	ANKMY2
structural_interaction_variant	ANKMY2
structural_interaction_variant	ANKMY2
structural_interaction_variant	ANKMY2
structural_interaction_variant	ANKMY2
structural_interaction_variant	ANKMY2
structural_interaction_variant	ANKMY2
structural_interaction_variant	ANKMY2
structural_interaction_variant	BZW2

structural_interaction_variant	BZW2
structural_interaction_variant	BZW2
structural_interaction_variant	AGR2
structural_interaction_variant	AGR2
stop_gained	AGR2
structural_interaction_variant	AHR
structural_interaction_variant	AHR
structural_interaction_variant	SNX13
structural_interaction_variant	SNX13
structural_interaction_variant	SNX13
structural_interaction_variant	PRPS1L1
frameshift_variant	PRPS1L1
structural_interaction_variant	PRPS1L1
structural_interaction_variant	PRPS1L1
structural_interaction_variant	HDAC9
structural_interaction_variant	TWISTNB
structural_interaction_variant	TMEM196
structural_interaction_variant	MACC1
frameshift_variant	MACC1
stop_gained	MACC1
structural_interaction_variant	MACC1
structural_interaction_variant	MACC1
stop_gained	MACC1
structural_interaction_variant	ITGB8
structural_interaction_variant	ITGB8
structural_interaction_variant	ITGB8
structural_interaction_variant	ABCB5
structural_interaction_variant	ABCB5
structural_interaction_variant	ABCB5
frameshift_variant	ABCB5
frameshift_variant	ABCB5
structural_interaction_variant	SP4
structural_interaction_variant	SP4
stop_gained	DNAH11
structural_interaction_variant	DNAH11
structural_interaction_variant	DNAH11
structural_interaction_variant	DNAH11
structural_interaction_variant	DNAH11
structural_interaction_variant	RAPGEF5
structural_interaction_variant	RAPGEF5
structural_interaction_variant	NUPL2
structural_interaction_variant	NUPL2
structural_interaction_variant	NUPL2
structural_interaction_variant	NUPL2
structural_interaction_variant	GPNMB
structural_interaction_variant	MALSU1
structural_interaction_variant	IGF2BP3
stop_gained	FAM221A

structural_interaction_variant	FAM221A
structural_interaction_variant	FAM221A
missense_variant&splice_region_variant	FAM221A
structural_interaction_variant	FAM221A
structural_interaction_variant	FAM221A
splice_donor_variant&intron_variant	STK31
structural_interaction_variant	STK31
structural_interaction_variant	STK31
structural_interaction_variant	STK31
structural_interaction_variant	NPY
structural_interaction_variant	NPY
structural_interaction_variant	NPY
structural_interaction_variant	MPP6
structural_interaction_variant	MPP6
structural_interaction_variant	MPP6
structural_interaction_variant	MPP6
structural_interaction_variant	DFNA5
structural_interaction_variant	DFNA5
structural_interaction_variant	DFNA5
structural_interaction_variant	DFNA5
structural_interaction_variant	OSBPL3
structural_interaction_variant	OSBPL3
structural_interaction_variant	OSBPL3
structural_interaction_variant	OSBPL3
structural_interaction_variant	OSBPL3
structural_interaction_variant	OSBPL3
stop_gained	OSBPL3
stop_gained	C7orf31
structural_interaction_variant	NPVF
structural_interaction_variant	C7orf71
structural_interaction_variant	SKAP2
structural_interaction_variant	HOXA1
structural_interaction_variant	HOXA2
structural_interaction_variant	HOXA3
structural_interaction_variant	HOXA3
disruptive_inframe_deletion	HOXA4
structural_interaction_variant	HOXA4
structural_interaction_variant	HOXA4
structural_interaction_variant	HOXA5
structural_interaction_variant	HOXA5
structural_interaction_variant	HOXA5
structural_interaction_variant	HOXA6
structural_interaction_variant	HOXA6
structural_interaction_variant	HOXA7
structural_interaction_variant	RP1-170O19.20
structural_interaction_variant	RP1-170O19.20
stop_gained	HOXA10
structural_interaction_variant	HOXA11

structural_interaction_variant	HOXA11
structural_interaction_variant	HOXA11
structural_interaction_variant	HOXA11
structural_interaction_variant	HOXA13
structural_interaction_variant	HIBADH
structural_interaction_variant	HIBADH
stop_gained	TAX1BP1
structural_interaction_variant	TAX1BP1
structural_interaction_variant	TAX1BP1
stop_gained	TAX1BP1
structural_interaction_variant	TAX1BP1
structural_interaction_variant	TAX1BP1
missense_variant&splice_region_variant	CREB5
missense_variant&splice_region_variant	CREB5
structural_interaction_variant	CREB5
structural_interaction_variant	CREB5
structural_interaction_variant	CREB5
structural_interaction_variant	CPVL
structural_interaction_variant	CHN2
structural_interaction_variant	PRR15
structural_interaction_variant	PRR15
structural_interaction_variant	SCRN1
structural_interaction_variant	PLEKHA8
structural_interaction_variant	PLEKHA8
structural_interaction_variant	MTURN
structural_interaction_variant	ZNRF2
structural_interaction_variant	ZNRF2
splice_donor_variant&intron_variant	ZNRF2
structural_interaction_variant	NOD1
structural_interaction_variant	NOD1
structural_interaction_variant	NOD1
structural_interaction_variant	NOD1
structural_interaction_variant	NOD1
structural_interaction_variant	NOD1
structural_interaction_variant	NOD1
structural_interaction_variant	GGCT
structural_interaction_variant	CRHR2
frameshift_variant	CRHR2
structural_interaction_variant	CRHR2
structural_interaction_variant	INMT
splice_acceptor_variant&intron_variant	FAM188B
structural_interaction_variant	FAM188B
structural_interaction_variant	AQP1
frameshift_variant	AQP1
frameshift_variant	AQP1
structural_interaction_variant	AQP1
structural_interaction_variant	ADCYAP1R1
structural_interaction_variant	ADCYAP1R1

structural_interaction_variant	NEUROD6
structural_interaction_variant	CCDC129
structural_interaction_variant	CCDC129
structural_interaction_variant	CCDC129
structural_interaction_variant	CCDC129
structural_interaction_variant	CCDC129
structural_interaction_variant	PDE1C
structural_interaction_variant	PDE1C
structural_interaction_variant	AVL9
structural_interaction_variant	AVL9
stop_gained	BBS9
structural_interaction_variant	BMPER
structural_interaction_variant	BMPER
structural_interaction_variant	NPSR1
missense_variant&splice_region_variant	NPSR1
stop_gained	NPSR1
structural_interaction_variant	NPSR1
structural_interaction_variant	DPY19L1
missense_variant&splice_region_variant	DPY19L1
structural_interaction_variant	TBX20
structural_interaction_variant	HERPUD2
structural_interaction_variant	EEPD1
structural_interaction_variant	EEPD1
structural_interaction_variant	EEPD1
structural_interaction_variant	EEPD1
structural_interaction_variant	EEPD1
structural_interaction_variant	KIAA0895
structural_interaction_variant	KIAA0895
structural_interaction_variant	KIAA0895
structural_interaction_variant	KIAA0895
stop_gained	KIAA0895
structural_interaction_variant	KIAA0895
structural_interaction_variant	ANLN
structural_interaction_variant	ANLN
missense_variant&splice_region_variant	AOAH
missense_variant&splice_region_variant	AOAH
structural_interaction_variant	AOAH
structural_interaction_variant	AOAH
structural_interaction_variant	ELMO1
frameshift_variant	ELMO1
missense_variant&splice_region_variant	NME8
structural_interaction_variant	NME8
structural_interaction_variant	NME8
structural_interaction_variant	STARD3NL
structural_interaction_variant	STARD3NL
structural_interaction_variant	TRGV9
structural_interaction_variant	AMPH
structural_interaction_variant	VPS41

structural_interaction_variant	VPS41
structural_interaction_variant	POU6F2
structural_interaction_variant	POU6F2
structural_interaction_variant	POU6F2
structural_interaction_variant	POU6F2
stop_gained	POU6F2
structural_interaction_variant	POU6F2
structural_interaction_variant	POU6F2
structural_interaction_variant	YAE1D1
structural_interaction_variant	YAE1D1
structural_interaction_variant	GLI3
structural_interaction_variant	GLI3
structural_interaction_variant	GLI3
structural_interaction_variant	HECW1
structural_interaction_variant	HECW1
structural_interaction_variant	HECW1
structural_interaction_variant	HECW1
structural_interaction_variant	HECW1
structural_interaction_variant	HECW1
structural_interaction_variant	HECW1
structural_interaction_variant	HECW1
structural_interaction_variant	HECW1
structural_interaction_variant	STK17A
structural_interaction_variant	COA1
structural_interaction_variant	COA1
structural_interaction_variant	URGCP
structural_interaction_variant	URGCP
structural_interaction_variant	URGCP
structural_interaction_variant	DBNL
structural_interaction_variant	PGAM2
structural_interaction_variant	PGAM2
structural_interaction_variant	PGAM2
structural_interaction_variant	PGAM2
structural_interaction_variant	POLM
structural_interaction_variant	AEBP1
structural_interaction_variant	AEBP1
structural_interaction_variant	AEBP1
structural_interaction_variant	AEBP1
structural_interaction_variant	YKT6
structural_interaction_variant	YKT6
structural_interaction_variant	CAMK2B
structural_interaction_variant	NPC1L1
structural_interaction_variant	NPC1L1
structural_interaction_variant	NPC1L1
structural_interaction_variant	NPC1L1
stop_gained	NPC1L1
splice_donor_variant&intron_variant	TMED4
frameshift_variant	OGDH

structural_interaction_variant	OGDH
structural_interaction_variant	OGDH
structural_interaction_variant	ZMIZ2
structural_interaction_variant	ZMIZ2
structural_interaction_variant	ZMIZ2
structural_interaction_variant	MYO1G
structural_interaction_variant	MYO1G
structural_interaction_variant	MYO1G
structural_interaction_variant	MYO1G
structural_interaction_variant	TBRG4
structural_interaction_variant	RAMP3
structural_interaction_variant	ADCY1
structural_interaction_variant	ADCY1
structural_interaction_variant	ADCY1
structural_interaction_variant	ADCY1
structural_interaction_variant	IGFBP1
structural_interaction_variant	TNS3
structural_interaction_variant	TNS3
structural_interaction_variant	TNS3
structural_interaction_variant	TNS3
structural_interaction_variant	TNS3
structural_interaction_variant	PKD1L1
structural_interaction_variant	PKD1L1
structural_interaction_variant	PKD1L1
structural_interaction_variant	PKD1L1
stop_gained	PKD1L1
structural_interaction_variant	HUS1
stop_gained	SUN3
missense_variant&splice_region_variant	C7orf57
structural_interaction_variant	C7orf57
structural_interaction_variant	UPP1
splice_donor_variant&intron_variant	ABCA13
missense_variant&splice_region_variant	ABCA13
stop_gained	ABCA13
structural_interaction_variant	ABCA13
structural_interaction_variant	ABCA13
structural_interaction_variant	ABCA13
structural_interaction_variant	ABCA13
structural_interaction_variant	ABCA13
frameshift_variant&stop_gained	ABCA13
stop_gained	ABCA13
structural_interaction_variant	ABCA13
structural_interaction_variant	ABCA13
structural_interaction_variant	ABCA13
structural_interaction_variant	ABCA13
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structural_interaction_variant	ABCA13
structural_interaction_variant	ABCA13
structural_interaction_variant	ABCA13
structural_interaction_variant	VWC2
structural_interaction_variant	ZPBP
splice_donor_variant&intron_variant	C7orf72
structural_interaction_variant	FIGNL1
structural_interaction_variant	FIGNL1
structural_interaction_variant	COBL
structural_interaction_variant	COBL
structural_interaction_variant	COBL
structural_interaction_variant	COBL
structural_interaction_variant	COBL
structural_interaction_variant	POM121L12
structural_interaction_variant	POM121L12
structural_interaction_variant	SEC61G
structural_interaction_variant	EGFR
structural_interaction_variant	EGFR
structural_interaction_variant	EGFR
structural_interaction_variant	SEPT14
structural_interaction_variant	SEPT14
start_lost	ZNF713
structural_interaction_variant	ZNF713
stop_gained	GBAS
structural_interaction_variant	PSPH
structural_interaction_variant	CCT6A
structural_interaction_variant	SUMF2
splice_donor_variant&intron_variant	PHKG1
missense_variant&splice_region_variant	PHKG1
structural_interaction_variant	ZNF716
stop_gained	ZNF716
structural_interaction_variant	ZNF716
structural_interaction_variant	ZNF716
structural_interaction_variant	ZNF716
splice_donor_variant&intron_variant	RP11-468B6.1
structural_interaction_variant	ZNF679
structural_interaction_variant	ZNF679
structural_interaction_variant	ZNF679
structural_interaction_variant	ZNF680
structural_interaction_variant	ZNF680

frameshift_variant	ZNF107
structural_interaction_variant	ZNF107
stop_gained	ZNF107
structural_interaction_variant	ZNF107
structural_interaction_variant	ZNF107
structural_interaction_variant	ZNF138
structural_interaction_variant	ZNF117
structural_interaction_variant	ZNF92
structural_interaction_variant	ASL
frameshift_variant	TPST1
structural_interaction_variant	TPST1
structural_interaction_variant	KCTD7
structural_interaction_variant	AUTS2
structural_interaction_variant	AUTS2
structural_interaction_variant	WBSCR17
structural_interaction_variant	WBSCR17
structural_interaction_variant	FZD9
structural_interaction_variant	FZD9
structural_interaction_variant	BAZ1B
structural_interaction_variant	BAZ1B
structural_interaction_variant	BAZ1B
structural_interaction_variant	BAZ1B
structural_interaction_variant	TBL2
structural_interaction_variant	TBL2
structural_interaction_variant	MLXIPL
structural_interaction_variant	WBSCR22
structural_interaction_variant	STX1A
structural_interaction_variant	CLDN4
structural_interaction_variant	CLDN4
structural_interaction_variant	CLDN4
structural_interaction_variant	WBSCR28
structural_interaction_variant	WBSCR28
structural_interaction_variant	WBSCR28
structural_interaction_variant	WBSCR28
frameshift_variant	WBSCR28
structural_interaction_variant	WBSCR28
structural_interaction_variant	LIMK1
structural_interaction_variant	LIMK1
missense_variant&splice_region_variant	LIMK1
structural_interaction_variant	LIMK1
structural_interaction_variant	RFC2
structural_interaction_variant	CLIP2
structural_interaction_variant	GTF2IRD1
structural_interaction_variant	GTF2IRD1
structural_interaction_variant	GTF2IRD1
structural_interaction_variant	HIP1
structural_interaction_variant	HIP1
structural_interaction_variant	HIP1

structural_interaction_variant	HIP1
structural_interaction_variant	RHBDD2
structural_interaction_variant	RHBDD2
structural_interaction_variant	POR
structural_interaction_variant	STYXL1
structural_interaction_variant	STYXL1
structural_interaction_variant	STYXL1
structural_interaction_variant	STYXL1
stop_gained	STYXL1
structural_interaction_variant	MDH2
structural_interaction_variant	MDH2
frameshift_variant	ZP3
structural_interaction_variant	ZP3
structural_interaction_variant	DTX2
frameshift_variant	POMZP3
structural_interaction_variant	POMZP3
structural_interaction_variant	FGL2
structural_interaction_variant	FGL2
structural_interaction_variant	FGL2
structural_interaction_variant	CCDC146
structural_interaction_variant	CCDC146
structural_interaction_variant	CCDC146
structural_interaction_variant	CCDC146
structural_interaction_variant	GSAP
splice_acceptor_variant&intron_variant	GSAP
structural_interaction_variant	GSAP
structural_interaction_variant	PTPN12
structural_interaction_variant	PTPN12
structural_interaction_variant	PTPN12
structural_interaction_variant	PTPN12
structural_interaction_variant	PTPN12
structural_interaction_variant	PTPN12
structural_interaction_variant	PTPN12
splice_acceptor_variant&intron_variant	PTPN12
structural_interaction_variant	RSBN1L
structural_interaction_variant	RSBN1L
structural_interaction_variant	RSBN1L
structural_interaction_variant	RSBN1L
structural_interaction_variant	RSBN1L
structural_interaction_variant	RSBN1L
structural_interaction_variant	PHTF2
structural_interaction_variant	PHTF2
structural_interaction_variant	PHTF2
structural_interaction_variant	PHTF2
structural_interaction_variant	PHTF2
structural_interaction_variant	PHTF2
structural_interaction_variant	GNAT3
frameshift_variant	GNAT3

structural_interaction_variant	CD36
stop_gained	CD36
structural_interaction_variant	CD36
structural_interaction_variant	CD36
structural_interaction_variant	CD36
stop_gained	CD36
stop_gained	CD36
missense_variant&splice_region_variant	SEMA3C
structural_interaction_variant	SEMA3C
structural_interaction_variant	HGF
structural_interaction_variant	HGF
missense_variant&splice_region_variant	HGF
structural_interaction_variant	HGF
structural_interaction_variant	HGF
structural_interaction_variant	HGF
structural_interaction_variant	HGF
splice_donor_variant&intron_variant	CACNA2D1
structural_interaction_variant	SEMA3E
stop_gained	SEMA3E
structural_interaction_variant	SEMA3E
missense_variant&splice_region_variant	SEMA3E
structural_interaction_variant	SEMA3E
structural_interaction_variant	SEMA3E
structural_interaction_variant	SEMA3A
structural_interaction_variant	SEMA3A
missense_variant&splice_region_variant	SEMA3A
structural_interaction_variant	SEMA3D
structural_interaction_variant	SEMA3D
structural_interaction_variant	SEMA3D
structural_interaction_variant	SEMA3D
structural_interaction_variant	KIAA1324L
structural_interaction_variant	KIAA1324L
structural_interaction_variant	KIAA1324L
structural_interaction_variant	DMTF1
structural_interaction_variant	TMEM243
stop_gained	TMEM243
structural_interaction_variant	ABCB4
structural_interaction_variant	ABCB4
structural_interaction_variant	ABCB1
structural_interaction_variant	ABCB1
stop_gained	ABCB1
splice_acceptor_variant&intron_variant	ABCB1
structural_interaction_variant	ABCB1
stop_gained	ABCB1
frameshift_variant	ABCB1
splice_donor_variant&intron_variant	ABCB1
structural_interaction_variant	RUNDC3B
structural_interaction_variant	RUNDC3B

structural_interaction_variant	RUNDC3B
structural_interaction_variant	RUNDC3B
structural_interaction_variant	RUNDC3B
structural_interaction_variant	SLC25A40
structural_interaction_variant	SLC25A40
structural_interaction_variant	DBF4
structural_interaction_variant	DBF4
missense_variant&splice_region_variant	ADAM22
stop_gained	STEAP4
structural_interaction_variant	STEAP4
structural_interaction_variant	STEAP4
structural_interaction_variant	STEAP4
structural_interaction_variant	STEAP4
structural_interaction_variant	C7orf62
structural_interaction_variant	ZNF804B
structural_interaction_variant	ZNF804B
structural_interaction_variant	ZNF804B
structural_interaction_variant	ZNF804B
structural_interaction_variant	ZNF804B
structural_interaction_variant	STEAP1
structural_interaction_variant	C7orf63
structural_interaction_variant	C7orf63
stop_gained	C7orf63
structural_interaction_variant	C7orf63
structural_interaction_variant	C7orf63
structural_interaction_variant	C7orf63
structural_interaction_variant	C7orf63
structural_interaction_variant	C7orf63
structural_interaction_variant	GTPBP10
structural_interaction_variant	GTPBP10
structural_interaction_variant	GTPBP10
missense_variant&splice_region_variant	GTPBP10
structural_interaction_variant	CLDN12
structural_interaction_variant	CLDN12
structural_interaction_variant	CDK14
structural_interaction_variant	CDK14
structural_interaction_variant	FZD1
structural_interaction_variant	FZD1
structural_interaction_variant	FZD1
structural_interaction_variant	FZD1
structural_interaction_variant	MTERF
structural_interaction_variant	MTERF
structural_interaction_variant	MTERF
structural_interaction_variant	MTERF
stop_gained	MTERF
structural_interaction_variant	AKAP9
structural_interaction_variant	AKAP9
structural_interaction_variant	AKAP9

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structural_interaction_variant	AKAP9
structural_interaction_variant	LRRD1
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structural_interaction_variant	LRRD1
structural_interaction_variant	ANKIB1
structural_interaction_variant	ANKIB1
structural_interaction_variant	ANKIB1
structural_interaction_variant	ANKIB1
structural_interaction_variant	ANKIB1
missense_variant&splice_region_variant	GATAD1
structural_interaction_variant	GATAD1
structural_interaction_variant	PEX1
structural_interaction_variant	RBM48
missense_variant&splice_region_variant	RBM48
structural_interaction_variant	SAMD9
frameshift_variant	SAMD9
frameshift_variant	SAMD9
structural_interaction_variant	SAMD9
structural_interaction_variant	SAMD9
structural_interaction_variant	SAMD9
structural_interaction_variant	SAMD9
stop_gained	SAMD9
structural_interaction_variant	SAMD9
structural_interaction_variant	HEPACAM2
structural_interaction_variant	HEPACAM2
structural_interaction_variant	HEPACAM2
structural_interaction_variant	HEPACAM2
structural_interaction_variant	CCDC132
structural_interaction_variant	CALCR
structural_interaction_variant	CALCR
structural_interaction_variant	GNG11
stop_gained	COL1A2
structural_interaction_variant	CASD1

structural_interaction_variant	CASD1
structural_interaction_variant	PEG10
structural_interaction_variant	PEG10
structural_interaction_variant	PEG10
structural_interaction_variant	PEG10
structural_interaction_variant	PEG10
structural_interaction_variant	PPP1R9A
structural_interaction_variant	PPP1R9A
structural_interaction_variant	PPP1R9A
disruptive_inframe_deletion	PPP1R9A
structural_interaction_variant	PPP1R9A
structural_interaction_variant	PPP1R9A
structural_interaction_variant	PPP1R9A
structural_interaction_variant	PON1
structural_interaction_variant	PON3
structural_interaction_variant	PON3
structural_interaction_variant	PON1
structural_interaction_variant	PON2
structural_interaction_variant	PON2
structural_interaction_variant	PON2
structural_interaction_variant	PON2
structural_interaction_variant	ASB4
structural_interaction_variant	ASB4
structural_interaction_variant	ASB4
disruptive_inframe_deletion	PDK4
structural_interaction_variant	PDK4
structural_interaction_variant	PDK4
missense_variant&splice_region_variant	PDK4
splice_donor_variant&intron_variant	PDK4
structural_interaction_variant	PDK4
structural_interaction_variant	SLC25A13
structural_interaction_variant	SLC25A13
missense_variant&splice_region_variant	SLC25A13
stop_gained	SLC25A13
structural_interaction_variant	SLC25A13
structural_interaction_variant	C7orf76
structural_interaction_variant	SHFM1
structural_interaction_variant	DLX6
disruptive_inframe_insertion	DLX6
structural_interaction_variant	DLX5
structural_interaction_variant	DLX5
disruptive_inframe_insertion	DLX5
structural_interaction_variant	DLX5
structural_interaction_variant	DLX5
start_lost	DLX5
structural_interaction_variant	ACN9
structural_interaction_variant	ACN9
structural_interaction_variant	ACN9

structural_interaction_variant	ACN9
structural_interaction_variant	ACN9
structural_interaction_variant	ACN9
structural_interaction_variant	TAC1
structural_interaction_variant	ASNS
structural_interaction_variant	LMTK2
structural_interaction_variant	LMTK2
structural_interaction_variant	LMTK2
structural_interaction_variant	LMTK2
structural_interaction_variant	LMTK2
structural_interaction_variant	LMTK2
structural_interaction_variant	LMTK2
structural_interaction_variant	LMTK2
structural_interaction_variant	LMTK2
structural_interaction_variant	BHLHA15
structural_interaction_variant	TECPR1
structural_interaction_variant	TECPR1
structural_interaction_variant	TECPR1
missense_variant&splice_region_variant	BAIAP2L1
structural_interaction_variant	NPTX2
structural_interaction_variant	TMEM130
structural_interaction_variant	TMEM130
structural_interaction_variant	TMEM130
structural_interaction_variant	TMEM130
structural_interaction_variant	TMEM130
stop_gained	TMEM130
structural_interaction_variant	TRRAP
structural_interaction_variant	TRRAP
structural_interaction_variant	SMURF1
structural_interaction_variant	KPNA7
structural_interaction_variant	KPNA7
structural_interaction_variant	ARPC1B
stop_gained	PTCD1
structural_interaction_variant	PTCD1
structural_interaction_variant	PTCD1
structural_interaction_variant	PTCD1
structural_interaction_variant	PTCD1
structural_interaction_variant	ZNF789
structural_interaction_variant	ZNF789
structural_interaction_variant	ZNF789
structural_interaction_variant	ZNF789
structural_interaction_variant	ZNF394
structural_interaction_variant	ZNF394
structural_interaction_variant	ZNF394
structural_interaction_variant	ZNF394
structural_interaction_variant	ZNF394
structural_interaction_variant	ZKSCAN5
structural_interaction_variant	ZNF655

structural_interaction_variant	ZNF655
structural_interaction_variant	ZNF655
structural_interaction_variant	ZSCAN25
structural_interaction_variant	CYP3A5
structural_interaction_variant	CYP3A5
structural_interaction_variant	CYP3A7
structural_interaction_variant	OR2AE1
structural_interaction_variant	OR2AE1
structural_interaction_variant	OR2AE1
structural_interaction_variant	OR2AE1
structural_interaction_variant	GJC3
structural_interaction_variant	GJC3
structural_interaction_variant	GJC3
structural_interaction_variant	AZGP1
structural_interaction_variant	ZKSCAN1
structural_interaction_variant	ZKSCAN1
structural_interaction_variant	ZKSCAN1
stop_gained	ZKSCAN1
structural_interaction_variant	ZSCAN21
structural_interaction_variant	ZSCAN21
structural_interaction_variant	ZSCAN21
stop_gained	ZSCAN21
structural_interaction_variant	ZSCAN21
structural_interaction_variant	COPS6
disruptive_inframe_deletion	COPS6
stop_gained	AP4M1
structural_interaction_variant	LAMTOR4
frameshift_variant	GAL3ST4
frameshift_variant	GAL3ST4
structural_interaction_variant	GAL3ST4
structural_interaction_variant	GAL3ST4
structural_interaction_variant	GPC2
structural_interaction_variant	GPC2
structural_interaction_variant	STAG3
frameshift_variant	STAG3
structural_interaction_variant	ZCWPW1
structural_interaction_variant	ZCWPW1
structural_interaction_variant	MEPCE
structural_interaction_variant	MEPCE
structural_interaction_variant	MEPCE
structural_interaction_variant	MEPCE
frameshift_variant	MEPCE
structural_interaction_variant	MEPCE
frameshift_variant	PPP1R35
structural_interaction_variant	PPP1R35
structural_interaction_variant	PPP1R35
structural_interaction_variant	TSC22D4
structural_interaction_variant	TSC22D4

structural_interaction_variant	AGFG2
structural_interaction_variant	AGFG2
structural_interaction_variant	LRCH4
structural_interaction_variant	LRCH4
structural_interaction_variant	FBXO24
disruptive_inframe_insertion	PCOLCE
structural_interaction_variant	PCOLCE
structural_interaction_variant	PCOLCE
structural_interaction_variant	PCOLCE
structural_interaction_variant	PCOLCE
structural_interaction_variant	PCOLCE
structural_interaction_variant	MOSPD3
structural_interaction_variant	MOSPD3
structural_interaction_variant	MOSPD3
structural_interaction_variant	GNB2
structural_interaction_variant	GNB2
structural_interaction_variant	GIGYF1
structural_interaction_variant	GIGYF1
structural_interaction_variant	GIGYF1
structural_interaction_variant	GIGYF1
structural_interaction_variant	GIGYF1
structural_interaction_variant	GIGYF1
structural_interaction_variant	GIGYF1
structural_interaction_variant	POP7
structural_interaction_variant	POP7
structural_interaction_variant	ZAN
structural_interaction_variant	ZAN
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structural_interaction_variant	ZAN
structural_interaction_variant	ZAN
splice_donor_variant&intron_variant	ZAN
structural_interaction_variant	ZAN
stop_gained	ZAN
structural_interaction_variant	ZAN
structural_interaction_variant	ZAN
structural_interaction_variant	ZAN
structural_interaction_variant	ZAN
structural_interaction_variant	TRIP6
structural_interaction_variant	SRRT
structural_interaction_variant	SRRT
structural_interaction_variant	SRRT
splice_acceptor_variant&intron_variant	SRRT
structural_interaction_variant	SRRT
structural_interaction_variant	SRRT
structural_interaction_variant	UFSP1
structural_interaction_variant	UFSP1

structural_interaction_variant	UFSP1
structural_interaction_variant	MUC3A
structural_interaction_variant	MUC3A
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structural_interaction_variant	MUC3A
structural_interaction_variant	MUC3A
structural_interaction_variant	MUC3A
stop_gained	MUC3A
structural_interaction_variant	MUC3A
frameshift_variant	MUC3A
structural_interaction_variant	MUC3A
structural_interaction_variant	MUC3A
structural_interaction_variant	MUC3A
missense_variant&splice_region_variant	MUC3A
structural_interaction_variant	MUC3A
structural_interaction_variant	MUC3A
structural_interaction_variant	MUC3A
structural_interaction_variant	MUC3A
structural_interaction_variant	MUC12
structural_interaction_variant	MUC12
structural_interaction_variant	MUC12
structural_interaction_variant	MUC12
stop_gained	MUC12
structural_interaction_variant	MUC12
structural_interaction_variant	MUC12
structural_interaction_variant	MUC12
structural_interaction_variant	MUC12
structural_interaction_variant	MUC17
structural_interaction_variant	MUC17
structural_interaction_variant	MUC17
structural_interaction_variant	MUC17
structural_interaction_variant	MUC17
stop_gained	MUC17
structural_interaction_variant	MUC17
structural_interaction_variant	MUC17
structural_interaction_variant	MUC17
stop_gained	MUC17
frameshift_variant	MUC17
structural_interaction_variant	TRIM56
frameshift_variant	TRIM56

structural_interaction_variant	TRIM56
structural_interaction_variant	TRIM56
frameshift_variant	TRIM56
disruptive_inframe_deletion	AP1S1
structural_interaction_variant	FIS1
structural_interaction_variant	FIS1
structural_interaction_variant	RABL5
structural_interaction_variant	RABL5
splice_acceptor_variant&intron_variant	RABL5
structural_interaction_variant	COL26A1
structural_interaction_variant	COL26A1
structural_interaction_variant	MYL10
structural_interaction_variant	MYL10
structural_interaction_variant	MYL10
structural_interaction_variant	MYL10
structural_interaction_variant	CUX1
structural_interaction_variant	SH2B2
stop_gained	PRKRIP1
structural_interaction_variant	ORAI2
structural_interaction_variant	ALKBH4
missense_variant&splice_region_variant	LRWD1
stop_gained	FBXL13
missense_variant&splice_region_variant	FBXL13
structural_interaction_variant	FBXL13
structural_interaction_variant	LRRC17
conservative_inframe_deletion	LRRC17
missense_variant&splice_region_variant	LRRC17
structural_interaction_variant	LRRC17
structural_interaction_variant	LRRC17
stop_gained	FBXL13
structural_interaction_variant	NAPEPLD
structural_interaction_variant	NAPEPLD
structural_interaction_variant	DNAJC2
structural_interaction_variant	DNAJC2
structural_interaction_variant	DNAJC2
structural_interaction_variant	DNAJC2
structural_interaction_variant	PSMC2
splice_acceptor_variant&intron_variant	RELN
structural_interaction_variant	RELN
structural_interaction_variant	RELN
structural_interaction_variant	ORC5
structural_interaction_variant	ORC5
structural_interaction_variant	ORC5
structural_interaction_variant	ORC5
structural_interaction_variant	ORC5
structural_interaction_variant	LHFPL3
structural_interaction_variant	LHFPL3
structural_interaction_variant	KMT2E

structural_interaction_variant	KMT2E
structural_interaction_variant	KMT2E
structural_interaction_variant	KMT2E
structural_interaction_variant	KMT2E
structural_interaction_variant	KMT2E
structural_interaction_variant	KMT2E
structural_interaction_variant	KMT2E
structural_interaction_variant	KMT2E
structural_interaction_variant	KMT2E
structural_interaction_variant	KMT2E
structural_interaction_variant	KMT2E
missense_variant&splice_region_variant	SRPK2
structural_interaction_variant	PUS7
structural_interaction_variant	PUS7
structural_interaction_variant	PUS7
stop_gained	RINT1
stop_gained	RINT1
structural_interaction_variant	RINT1
structural_interaction_variant	RINT1
structural_interaction_variant	RINT1
structural_interaction_variant	RINT1
structural_interaction_variant	RINT1
structural_interaction_variant	RINT1
structural_interaction_variant	CDHR3
frameshift_variant	CDHR3
structural_interaction_variant	CDHR3
structural_interaction_variant	SYPL1
structural_interaction_variant	SYPL1
structural_interaction_variant	PIK3CG
structural_interaction_variant	PIK3CG
structural_interaction_variant	PIK3CG
structural_interaction_variant	PIK3CG
structural_interaction_variant	PRKAR2B
missense_variant&splice_region_variant	HBP1
structural_interaction_variant	COG5
structural_interaction_variant	COG5
structural_interaction_variant	GPR22
structural_interaction_variant	GPR22
structural_interaction_variant	GPR22
splice_acceptor_variant&intron_variant	DUS4L
structural_interaction_variant	BCAP29
structural_interaction_variant	BCAP29
structural_interaction_variant	BCAP29
structural_interaction_variant	BCAP29
missense_variant&splice_region_variant	SLC26A4
stop_gained	SLC26A4
structural_interaction_variant	SLC26A4
structural_interaction_variant	SLC26A4

structural_interaction_variant	CBLL1
structural_interaction_variant	DLD
structural_interaction_variant	LAMB1
structural_interaction_variant	LAMB1
frameshift_variant	LAMB1
structural_interaction_variant	LAMB1
structural_interaction_variant	LAMB1
structural_interaction_variant	LAMB1
structural_interaction_variant	LAMB1
structural_interaction_variant	LAMB1
structural_interaction_variant	LAMB1
structural_interaction_variant	LAMB1
structural_interaction_variant	LAMB4
structural_interaction_variant	LAMB4
structural_interaction_variant	LAMB4
structural_interaction_variant	LAMB4
structural_interaction_variant	LAMB4
frameshift_variant	LAMB4
structural_interaction_variant	LAMB4
structural_interaction_variant	LAMB4
structural_interaction_variant	LAMB4
structural_interaction_variant	LAMB4
structural_interaction_variant	LAMB4
structural_interaction_variant	NRCAM
structural_interaction_variant	NRCAM
missense_variant&splice_region_variant	NRCAM
structural_interaction_variant	NRCAM
structural_interaction_variant	NRCAM
splice_donor_variant&intron_variant	NRCAM
structural_interaction_variant	PNPLA8
structural_interaction_variant	DNAJB9
structural_interaction_variant	DNAJB9
structural_interaction_variant	C7orf66
stop_gained	C7orf66
structural_interaction_variant	C7orf66
structural_interaction_variant	IMMP2L
structural_interaction_variant	DOCK4
structural_interaction_variant	DOCK4
structural_interaction_variant	DOCK4
structural_interaction_variant	DOCK4
structural_interaction_variant	DOCK4
structural_interaction_variant	DOCK4
structural_interaction_variant	DOCK4
structural_interaction_variant	DOCK4
structural_interaction_variant	DOCK4
structural_interaction_variant	DOCK4
structural_interaction_variant	DOCK4

structural_interaction_variant	ZNF277
structural_interaction_variant	IFRD1
structural_interaction_variant	LSMEM1
stop_gained	TMEM168
structural_interaction_variant	TMEM168
frameshift_variant	TMEM168
structural_interaction_variant	TMEM168
structural_interaction_variant	PPP1R3A
stop_gained	PPP1R3A
structural_interaction_variant	PPP1R3A
structural_interaction_variant	PPP1R3A
structural_interaction_variant	PPP1R3A
structural_interaction_variant	PPP1R3A
structural_interaction_variant	MDFIC
structural_interaction_variant	CAV2
structural_interaction_variant	CAV2
structural_interaction_variant	CAV2
structural_interaction_variant	CAV2
structural_interaction_variant	CAV2
structural_interaction_variant	CAV1
structural_interaction_variant	MET
structural_interaction_variant	CAPZA2
structural_interaction_variant	ST7
structural_interaction_variant	ST7
structural_interaction_variant	WNT2
structural_interaction_variant	WNT2
structural_interaction_variant	ASZ1
structural_interaction_variant	CFTR
structural_interaction_variant	CFTR
structural_interaction_variant	CFTR
stop_gained	CFTR
stop_gained	CTTNBP2
frameshift_variant	CTTNBP2
structural_interaction_variant	CTTNBP2
structural_interaction_variant	CTTNBP2
structural_interaction_variant	CTTNBP2
structural_interaction_variant	CTTNBP2
structural_interaction_variant	CTTNBP2
structural_interaction_variant	CTTNBP2
structural_interaction_variant	CTTNBP2
structural_interaction_variant	CTTNBP2
structural_interaction_variant	TSPAN12
structural_interaction_variant	ING3
structural_interaction_variant	ING3
structural_interaction_variant	ING3
structural_interaction_variant	CPED1
structural_interaction_variant	CPED1
structural_interaction_variant	CPED1

structural_interaction_variant	CPED1
structural_interaction_variant	CPED1
structural_interaction_variant	CPED1
structural_interaction_variant	CPED1
structural_interaction_variant	CPED1
splice_donor_variant&intron_variant	CPED1
structural_interaction_variant	WNT16
structural_interaction_variant	WNT16
structural_interaction_variant	WNT16
structural_interaction_variant	FAM3C
frameshift_variant	FAM3C
splice_acceptor_variant&intron_variant	FAM3C
structural_interaction_variant	PTPRZ1
structural_interaction_variant	PTPRZ1
structural_interaction_variant	PTPRZ1
structural_interaction_variant	PTPRZ1
structural_interaction_variant	PTPRZ1
structural_interaction_variant	PTPRZ1
structural_interaction_variant	PTPRZ1
structural_interaction_variant	PTPRZ1
missense_variant&splice_region_variant	PTPRZ1
structural_interaction_variant	PTPRZ1
structural_interaction_variant	PTPRZ1
structural_interaction_variant	PTPRZ1
missense_variant&splice_region_variant	PTPRZ1
structural_interaction_variant	PTPRZ1
structural_interaction_variant	PTPRZ1
missense_variant&splice_region_variant	PTPRZ1
structural_interaction_variant	PTPRZ1
structural_interaction_variant	AASS
structural_interaction_variant	AASS
structural_interaction_variant	AASS
structural_interaction_variant	AASS
structural_interaction_variant	FEZF1
structural_interaction_variant	CADPS2
structural_interaction_variant	CADPS2
structural_interaction_variant	CADPS2
structural_interaction_variant	CADPS2
structural_interaction_variant	CADPS2
structural_interaction_variant	CADPS2
structural_interaction_variant	CADPS2
structural_interaction_variant	RNF148
structural_interaction_variant	RNF148
structural_interaction_variant	RNF148
structural_interaction_variant	RNF148
structural_interaction_variant	SLC13A1
structural_interaction_variant	SLC13A1
structural_interaction_variant	SLC13A1

structural_interaction_variant	IQUB
structural_interaction_variant	IQUB
missense_variant&splice_region_variant	IQUB
missense_variant&splice_region_variant	IQUB
splice_acceptor_variant&intron_variant	IQUB
structural_interaction_variant	ASB15
structural_interaction_variant	ASB15
structural_interaction_variant	WASL
structural_interaction_variant	HYAL4
splice_acceptor_variant&intron_variant	HYAL4
structural_interaction_variant	HYAL4
structural_interaction_variant	GPR37
structural_interaction_variant	GPR37
structural_interaction_variant	GPR37
structural_interaction_variant	POT1
structural_interaction_variant	GRM8
structural_interaction_variant	GRM8
structural_interaction_variant	GCC1
structural_interaction_variant	GCC1
structural_interaction_variant	ARF5
structural_interaction_variant	FSCN3
structural_interaction_variant	FSCN3
structural_interaction_variant	FSCN3
frameshift_variant	FSCN3
structural_interaction_variant	FSCN3
structural_interaction_variant	SND1
structural_interaction_variant	SND1
structural_interaction_variant	RBM28
frameshift_variant	RBM28
structural_interaction_variant	RBM28
structural_interaction_variant	RBM28
structural_interaction_variant	RBM28
structural_interaction_variant	RBM28
structural_interaction_variant	RBM28
structural_interaction_variant	HILPDA
structural_interaction_variant	METTL2B
structural_interaction_variant	METTL2B
structural_interaction_variant	FAM71F2
structural_interaction_variant	FAM71F2
structural_interaction_variant	FAM71F2
structural_interaction_variant	FAM71F1
missense_variant&splice_region_variant	FAM71F1
structural_interaction_variant	OPN1SW
structural_interaction_variant	OPN1SW
structural_interaction_variant	CCDC136
stop_gained	CCDC136
structural_interaction_variant	CCDC136
structural_interaction_variant	FLNC

structural_interaction_variant	FLNC
structural_interaction_variant	FLNC
structural_interaction_variant	FLNC
structural_interaction_variant	TSPAN33
stop_gained	SMO
structural_interaction_variant	SMO
structural_interaction_variant	AHCYL2
structural_interaction_variant	AHCYL2
structural_interaction_variant	STRIP2
structural_interaction_variant	STRIP2
structural_interaction_variant	STRIP2
structural_interaction_variant	NRF1
structural_interaction_variant	NRF1
structural_interaction_variant	UBE2H
frameshift_variant	ZC3HC1
structural_interaction_variant	KLHDC10
stop_gained	TMEM209
structural_interaction_variant	TMEM209
structural_interaction_variant	TMEM209
structural_interaction_variant	TMEM209
structural_interaction_variant	SSMEM1
structural_interaction_variant	SSMEM1
structural_interaction_variant	SSMEM1
structural_interaction_variant	SSMEM1
structural_interaction_variant	SSMEM1
structural_interaction_variant	SSMEM1
structural_interaction_variant	CPA2
structural_interaction_variant	CPA4
structural_interaction_variant	CPA5
structural_interaction_variant	CPA5
structural_interaction_variant	CPA1
structural_interaction_variant	MEST
structural_interaction_variant	MEST
structural_interaction_variant	COPG2
structural_interaction_variant	COPG2
structural_interaction_variant	TSGA13
stop_gained	TSGA13
structural_interaction_variant	TSGA13
structural_interaction_variant	MKLN1
structural_interaction_variant	MKLN1
structural_interaction_variant	MKLN1
structural_interaction_variant	MKLN1
structural_interaction_variant	PLXNA4
structural_interaction_variant	PLXNA4
structural_interaction_variant	EXOC4
missense_variant&splice_region_variant	EXOC4
structural_interaction_variant	LRGUK
structural_interaction_variant	LRGUK

structural_interaction_variant	LRGUK
structural_interaction_variant	LRGUK
structural_interaction_variant	LRGUK
structural_interaction_variant	SLC35B4
structural_interaction_variant	SLC35B4
splice_donor_variant&intron_variant	SLC35B4
structural_interaction_variant	AKR1B10
structural_interaction_variant	AKR1B10
missense_variant&splice_region_variant	AKR1B10
splice_donor_variant&intron_variant	AKR1B15
structural_interaction_variant	BPGM
disruptive_inframe_deletion	BPGM
structural_interaction_variant	CALD1
structural_interaction_variant	CALD1
frameshift_variant&stop_gained	AGBL3
structural_interaction_variant	AGBL3
structural_interaction_variant	AGBL3
structural_interaction_variant	AGBL3
structural_interaction_variant	AGBL3
structural_interaction_variant	AGBL3
stop_gained	AGBL3
stop_gained	AGBL3
structural_interaction_variant	AGBL3
structural_interaction_variant	AGBL3
splice_donor_variant&intron_variant	AGBL3
structural_interaction_variant	TMEM140
structural_interaction_variant	C7orf49
stop_gained	C7orf49
frameshift_variant	C7orf49
missense_variant&splice_region_variant	WDR91
structural_interaction_variant	WDR91
structural_interaction_variant	WDR91
structural_interaction_variant	WDR91
structural_interaction_variant	WDR91
structural_interaction_variant	WDR91
structural_interaction_variant	WDR91
structural_interaction_variant	WDR91
structural_interaction_variant	WDR91
structural_interaction_variant	STRA8
missense_variant&splice_region_variant	NUP205
structural_interaction_variant	NUP205
structural_interaction_variant	NUP205
structural_interaction_variant	NUP205
structural_interaction_variant	NUP205
structural_interaction_variant	NUP205
structural_interaction_variant	NUP205
structural_interaction_variant	SLC13A4
structural_interaction_variant	SLC13A4
structural_interaction_variant	PTN

missense_variant&splice_region_variant	DGKI
structural_interaction_variant	DGKI
structural_interaction_variant	DGKI
structural_interaction_variant	DGKI
structural_interaction_variant	CREB3L2
structural_interaction_variant	CREB3L2
structural_interaction_variant	CREB3L2
structural_interaction_variant	CREB3L2
structural_interaction_variant	AKR1D1
structural_interaction_variant	TRIM24
structural_interaction_variant	TRIM24
structural_interaction_variant	TRIM24
structural_interaction_variant	TRIM24
structural_interaction_variant	SVOPL
frameshift_variant	ATP6V0A4
structural_interaction_variant	TMEM213
structural_interaction_variant	KIAA1549
structural_interaction_variant	KIAA1549
structural_interaction_variant	KIAA1549
structural_interaction_variant	KIAA1549
structural_interaction_variant	KIAA1549
structural_interaction_variant	KIAA1549
structural_interaction_variant	ZC3HAV1L
structural_interaction_variant	ZC3HAV1
structural_interaction_variant	ZC3HAV1
structural_interaction_variant	ZC3HAV1
disruptive_inframe_deletion	ZC3HAV1
structural_interaction_variant	TTC26
structural_interaction_variant	UBN2
structural_interaction_variant	UBN2
structural_interaction_variant	UBN2
structural_interaction_variant	UBN2
structural_interaction_variant	UBN2
structural_interaction_variant	UBN2
missense_variant&splice_region_variant	UBN2
structural_interaction_variant	UBN2
structural_interaction_variant	UBN2
structural_interaction_variant	LUC7L2
structural_interaction_variant	C7orf55-LUC7L2
structural_interaction_variant	HIPK2
structural_interaction_variant	HIPK2
structural_interaction_variant	PARP12
structural_interaction_variant	KDM7A
structural_interaction_variant	KDM7A
structural_interaction_variant	KDM7A
structural_interaction_variant	KDM7A
structural_interaction_variant	KDM7A
structural_interaction_variant	KDM7A

missense_variant&splice_region_variant	KDM7A
structural_interaction_variant	SLC37A3
structural_interaction_variant	SLC37A3
structural_interaction_variant	SLC37A3
structural_interaction_variant	DENND2A
stop_gained	DENND2A
structural_interaction_variant	DENND2A
structural_interaction_variant	DENND2A
structural_interaction_variant	ADCK2
structural_interaction_variant	ADCK2
stop_gained	NDUFB2
structural_interaction_variant	NDUFB2
structural_interaction_variant	MRPS33
structural_interaction_variant	TAS2R3
structural_interaction_variant	TAS2R3
structural_interaction_variant	TAS2R5
structural_interaction_variant	PRSS37
structural_interaction_variant	OR9A4
structural_interaction_variant	OR9A4
structural_interaction_variant	OR9A4
structural_interaction_variant	MGAM
structural_interaction_variant	MGAM
structural_interaction_variant	MGAM
structural_interaction_variant	MGAM
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structural_interaction_variant	MGAM
structural_interaction_variant	MGAM
structural_interaction_variant	PRSS58
structural_interaction_variant	PRSS58
structural_interaction_variant	PRSS58
structural_interaction_variant	EPHB6
structural_interaction_variant	EPHB6
structural_interaction_variant	EPHB6
structural_interaction_variant	EPHB6
structural_interaction_variant	EPHB6
structural_interaction_variant	EPHB6
stop_gained	TRPV6
structural_interaction_variant	TRPV5
structural_interaction_variant	TRPV5
structural_interaction_variant	TRPV5
structural_interaction_variant	TRPV5
structural_interaction_variant	TRPV5
structural_interaction_variant	C7orf34
structural_interaction_variant	C7orf34
structural_interaction_variant	KEL
structural_interaction_variant	KEL
structural_interaction_variant	KEL

structural_interaction_variant	KEL
splice_acceptor_variant&intron_variant	KEL
frameshift_variant	KEL
structural_interaction_variant	OR9A2
structural_interaction_variant	OR9A2
structural_interaction_variant	OR6V1
structural_interaction_variant	OR6V1
frameshift_variant	PIP
structural_interaction_variant	TAS2R39
structural_interaction_variant	GSTK1
structural_interaction_variant	GSTK1
structural_interaction_variant	GSTK1
structural_interaction_variant	GSTK1
structural_interaction_variant	GSTK1
structural_interaction_variant	GSTK1
structural_interaction_variant	GSTK1
structural_interaction_variant	TMEM139
structural_interaction_variant	TMEM139
splice_donor_variant&intron_variant	TMEM139
structural_interaction_variant	TMEM139
structural_interaction_variant	TMEM139
structural_interaction_variant	CASP2
structural_interaction_variant	CASP2
structural_interaction_variant	CLCN1
structural_interaction_variant	EPHA1
structural_interaction_variant	EPHA1
structural_interaction_variant	EPHA1
structural_interaction_variant	EPHA1
frameshift_variant	TAS2R41
structural_interaction_variant	TAS2R41
structural_interaction_variant	TAS2R41
structural_interaction_variant	TAS2R41
structural_interaction_variant	FAM115A
structural_interaction_variant	FAM115A
structural_interaction_variant	OR2F2
structural_interaction_variant	OR2F2
structural_interaction_variant	OR2F2
structural_interaction_variant	OR2F2
structural_interaction_variant	OR2F2
structural_interaction_variant	OR2F2
structural_interaction_variant	OR6B1
structural_interaction_variant	OR6B1
structural_interaction_variant	OR2A25
structural_interaction_variant	OR2A25
structural_interaction_variant	OR2A12
structural_interaction_variant	OR2A12
stop_gained	OR2A2
structural_interaction_variant	OR2A2

structural_interaction_variant	ARHGEF5
missense_variant&splice_region_variant	NOBOX
structural_interaction_variant	NOBOX
frameshift_variant	NOBOX
structural_interaction_variant	TPK1
stop_gained&splice_region_variant	TPK1
structural_interaction_variant	TPK1
structural_interaction_variant	TPK1
stop_gained	CNTNAP2
stop_gained	CNTNAP2
frameshift_variant	CNTNAP2
stop_gained	C7orf33
structural_interaction_variant	CUL1
structural_interaction_variant	CUL1
structural_interaction_variant	PDIA4
structural_interaction_variant	PDIA4
structural_interaction_variant	ZNF786
structural_interaction_variant	ZNF786
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structural_interaction_variant	ZNF786
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structural_interaction_variant	ZNF786
structural_interaction_variant	ZNF786
structural_interaction_variant	ZNF425
structural_interaction_variant	ZNF425
structural_interaction_variant	ZNF398
structural_interaction_variant	ZNF398
structural_interaction_variant	ZNF282
structural_interaction_variant	ZNF282
structural_interaction_variant	ZNF212
structural_interaction_variant	ZNF212
structural_interaction_variant	ZNF212
structural_interaction_variant	ZNF783
structural_interaction_variant	ZNF783
structural_interaction_variant	ZNF783
structural_interaction_variant	ZNF783
structural_interaction_variant	ZNF777
structural_interaction_variant	ZNF777
structural_interaction_variant	ZNF777
structural_interaction_variant	ZNF777
structural_interaction_variant	ZNF746
structural_interaction_variant	KRBA1
structural_interaction_variant	KRBA1
structural_interaction_variant	KRBA1
structural_interaction_variant	ZNF862
structural_interaction_variant	ZNF862
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structural_interaction_variant	ZNF862
structural_interaction_variant	ZNF862
structural_interaction_variant	ZNF862
stop_gained	ZNF862
structural_interaction_variant	ZNF862
frameshift_variant	ACTR3C
structural_interaction_variant	ZBED6CL
structural_interaction_variant	ZBED6CL
structural_interaction_variant	ZBED6CL
structural_interaction_variant	ZBED6CL
structural_interaction_variant	LRRC61
structural_interaction_variant	LRRC61
structural_interaction_variant	REPIN1
structural_interaction_variant	ZNF775
structural_interaction_variant	GIMAP8
structural_interaction_variant	GIMAP8
structural_interaction_variant	GIMAP7
structural_interaction_variant	GIMAP7
structural_interaction_variant	GIMAP7
structural_interaction_variant	GIMAP7
structural_interaction_variant	GIMAP7
missense_variant&splice_region_variant	GIMAP4
structural_interaction_variant	GIMAP4
structural_interaction_variant	GIMAP4
structural_interaction_variant	GIMAP6
stop_gained	GIMAP6
structural_interaction_variant	GIMAP2
structural_interaction_variant	GIMAP1
structural_interaction_variant	GIMAP5
structural_interaction_variant	TMEM176B
structural_interaction_variant	TMEM176B
structural_interaction_variant	AOC1
stop_gained	AOC1
stop_gained	AOC1
structural_interaction_variant	AOC1
structural_interaction_variant	NOS3
splice_donor_variant&intron_variant	NOS3
structural_interaction_variant	ABCB8
structural_interaction_variant	ABCB8
structural_interaction_variant	ABCB8
structural_interaction_variant	ASIC3
structural_interaction_variant	ASIC3
structural_interaction_variant	ASIC3
structural_interaction_variant	SLC4A2

structural_interaction_variant	SLC4A2
structural_interaction_variant	SLC4A2
structural_interaction_variant	SLC4A2
structural_interaction_variant	SLC4A2
structural_interaction_variant	SLC4A2
structural_interaction_variant	SLC4A2
missense_variant&splice_region_variant	SLC4A2
structural_interaction_variant	SLC4A2
structural_interaction_variant	FASTK
structural_interaction_variant	FASTK
structural_interaction_variant	TMUB1
structural_interaction_variant	GBX1
structural_interaction_variant	GBX1
structural_interaction_variant	GBX1
structural_interaction_variant	ABCF2
structural_interaction_variant	ABCF2
structural_interaction_variant	ABCF2
structural_interaction_variant	CHPF2
structural_interaction_variant	CHPF2
structural_interaction_variant	CHPF2
structural_interaction_variant	CHPF2
structural_interaction_variant	CHPF2
structural_interaction_variant	SMARCD3
structural_interaction_variant	SMARCD3
structural_interaction_variant	NUB1
structural_interaction_variant	NUB1
structural_interaction_variant	NUB1
frameshift_variant	WDR86
structural_interaction_variant	CRYGN
missense_variant&splice_region_variant	PRKAG2
structural_interaction_variant	GALNTL5
frameshift_variant	GALNTL5
structural_interaction_variant	GALNTL5
structural_interaction_variant	GALNT11
structural_interaction_variant	GALNT11
structural_interaction_variant	GALNT11
structural_interaction_variant	KMT2C
structural_interaction_variant	PAXIP1
structural_interaction_variant	HTR5A
structural_interaction_variant	HTR5A
structural_interaction_variant	HTR5A
structural_interaction_variant	INSIG1
structural_interaction_variant	RBM33
structural_interaction_variant	RBM33
structural_interaction_variant	RBM33
structural_interaction_variant	RBM33
frameshift_variant	RBM33
structural_interaction_variant	RNF32

structural_interaction_variant	RNF32
splice_donor_variant&intron_variant	RNF32
stop_lost	RNF32
structural_interaction_variant	RNF32
structural_interaction_variant	LMBR1
structural_interaction_variant	LMBR1
structural_interaction_variant	LMBR1
stop_gained	NOM1
structural_interaction_variant	NOM1
structural_interaction_variant	NOM1
structural_interaction_variant	NOM1
structural_interaction_variant	NOM1
structural_interaction_variant	MNX1
structural_interaction_variant	UBE3C
structural_interaction_variant	UBE3C
structural_interaction_variant	UBE3C
stop_gained	PTPRN2
structural_interaction_variant	PTPRN2
structural_interaction_variant	PTPRN2
structural_interaction_variant	PTPRN2
structural_interaction_variant	PTPRN2
stop_gained	PTPRN2
structural_interaction_variant	PTPRN2
structural_interaction_variant	PTPRN2
structural_interaction_variant	NCAPG2
structural_interaction_variant	NCAPG2
structural_interaction_variant	NCAPG2
structural_interaction_variant	NCAPG2
structural_interaction_variant	NCAPG2
structural_interaction_variant	NCAPG2
structural_interaction_variant	WDR60
structural_interaction_variant	WDR60
structural_interaction_variant	VIPR2
structural_interaction_variant	VIPR2
structural_interaction_variant	ZNF596
structural_interaction_variant	FBXO25
structural_interaction_variant	FBXO25
frameshift_variant	TDRP
missense_variant&splice_region_variant	TDRP
structural_interaction_variant	ERICH1
structural_interaction_variant	ERICH1
structural_interaction_variant	ERICH1
structural_interaction_variant	ERICH1
structural_interaction_variant	ERICH1
structural_interaction_variant	ERICH1
structural_interaction_variant	ERICH1
structural_interaction_variant	DLGAP2
structural_interaction_variant	DLGAP2

structural_interaction_variant	DLGAP2
structural_interaction_variant	DLGAP2
structural_interaction_variant	DLGAP2
structural_interaction_variant	DLGAP2
structural_interaction_variant	DLGAP2
structural_interaction_variant	DLGAP2
missense_variant&splice_region_variant	DLGAP2
structural_interaction_variant	DLGAP2
structural_interaction_variant	DLGAP2
structural_interaction_variant	DLGAP2
structural_interaction_variant	DLGAP2
structural_interaction_variant	CLN8
structural_interaction_variant	CLN8
structural_interaction_variant	MYOM2
structural_interaction_variant	MYOM2
structural_interaction_variant	MYOM2
structural_interaction_variant	MYOM2
structural_interaction_variant	MYOM2
structural_interaction_variant	MYOM2
splice_acceptor_variant&intron_variant	MYOM2
structural_interaction_variant	MYOM2
structural_interaction_variant	MYOM2
structural_interaction_variant	MYOM2
frameshift_variant	MYOM2
structural_interaction_variant	MYOM2
splice_acceptor_variant&intron_variant	MYOM2
structural_interaction_variant	MYOM2
structural_interaction_variant	MYOM2
structural_interaction_variant	MYOM2
structural_interaction_variant	MYOM2
missense_variant&splice_region_variant	MYOM2
structural_interaction_variant	MYOM2
structural_interaction_variant	CSMD1
structural_interaction_variant	CSMD1
structural_interaction_variant	CSMD1
structural_interaction_variant	CSMD1
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structural_interaction_variant	CSMD1
structural_interaction_variant	CSMD1
structural_interaction_variant	CSMD1
structural_interaction_variant	CSMD1
structural_interaction_variant	CSMD1
stop_gained	CSMD1
structural_interaction_variant	MCPH1

structural_interaction_variant	ANGPT2
structural_interaction_variant	ANGPT2
structural_interaction_variant	AGPAT5
missense_variant&splice_region_variant	DEFA4
structural_interaction_variant	DEFA4
structural_interaction_variant	SGK223
frameshift_variant	SGK223
structural_interaction_variant	SGK223
splice_acceptor_variant&intron_variant	SGK223
structural_interaction_variant	SGK223
structural_interaction_variant	SGK223
structural_interaction_variant	SGK223
structural_interaction_variant	SGK223
structural_interaction_variant	SGK223
structural_interaction_variant	SGK223
structural_interaction_variant	MFHAS1
structural_interaction_variant	MFHAS1
structural_interaction_variant	MFHAS1
structural_interaction_variant	MFHAS1
structural_interaction_variant	MFHAS1
structural_interaction_variant	MFHAS1
structural_interaction_variant	MFHAS1
structural_interaction_variant	MFHAS1
structural_interaction_variant	MFHAS1
structural_interaction_variant	MFHAS1
structural_interaction_variant	MFHAS1
structural_interaction_variant	ERI1
structural_interaction_variant	ERI1
structural_interaction_variant	ERI1
structural_interaction_variant	ERI1
structural_interaction_variant	TNKS
structural_interaction_variant	TNKS
structural_interaction_variant	TNKS
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structural_interaction_variant	TNKS
structural_interaction_variant	TNKS
structural_interaction_variant	TNKS
structural_interaction_variant	TNKS
structural_interaction_variant	TNKS
stop_gained	MSRA
structural_interaction_variant	MSRA
structural_interaction_variant	MSRA
structural_interaction_variant	MSRA
structural_interaction_variant	MSRA
structural_interaction_variant	MSRA
structural_interaction_variant	PRSS55
structural_interaction_variant	PRSS55
structural_interaction_variant	RP1L1

structural_interaction_variant	RP1L1
structural_interaction_variant	RP1L1
structural_interaction_variant	C8orf74
structural_interaction_variant	SOX7
structural_interaction_variant	SOX7
structural_interaction_variant	SOX7
structural_interaction_variant	PINX1
structural_interaction_variant	XKR6
structural_interaction_variant	XKR6
structural_interaction_variant	MTMR9
structural_interaction_variant	MTMR9
structural_interaction_variant	MTMR9
structural_interaction_variant	MTMR9
structural_interaction_variant	MTMR9
structural_interaction_variant	MTMR9
stop_gained	C8orf12
structural_interaction_variant	BLK
stop_gained	NEIL2
structural_interaction_variant	NEIL2
structural_interaction_variant	FDFT1
structural_interaction_variant	FDFT1
structural_interaction_variant	FDFT1
structural_interaction_variant	FDFT1
structural_interaction_variant	CTSB
structural_interaction_variant	DEFB135
missense_variant&splice_region_variant	LONRF1
missense_variant&splice_region_variant	LONRF1
structural_interaction_variant	LONRF1
structural_interaction_variant	KIAA1456
structural_interaction_variant	KIAA1456
structural_interaction_variant	KIAA1456
structural_interaction_variant	KIAA1456
structural_interaction_variant	DLC1
structural_interaction_variant	DLC1
structural_interaction_variant	DLC1
structural_interaction_variant	DLC1
structural_interaction_variant	DLC1
structural_interaction_variant	DLC1
structural_interaction_variant	DLC1
structural_interaction_variant	DLC1
missense_variant&splice_region_variant	DLC1
structural_interaction_variant	DLC1
splice_donor_variant&intron_variant	DLC1
structural_interaction_variant	DLC1
structural_interaction_variant	DLC1
structural_interaction_variant	DLC1
structural_interaction_variant	DLC1
frameshift_variant&start_lost	C8orf48

frameshift_variant	C8orf48
structural_interaction_variant	C8orf48
stop_gained	TUSC3
splice_donor_variant&intron_variant	MSR1
stop_gained	MSR1
structural_interaction_variant	MSR1
frameshift_variant	MICU3
frameshift_variant	MICU3
structural_interaction_variant	ZDHHC2
structural_interaction_variant	ZDHHC2
structural_interaction_variant	MTMR7
missense_variant&splice_region_variant	MTMR7
structural_interaction_variant	MTMR7
structural_interaction_variant	MTMR7
structural_interaction_variant	MTMR7
structural_interaction_variant	MTMR7
structural_interaction_variant	SLC7A2
structural_interaction_variant	SLC7A2
structural_interaction_variant	SLC7A2
structural_interaction_variant	SLC7A2
structural_interaction_variant	SLC7A2
structural_interaction_variant	PDGFRL
structural_interaction_variant	PDGFRL
structural_interaction_variant	PDGFRL
missense_variant&splice_region_variant	MTUS1
structural_interaction_variant	MTUS1
structural_interaction_variant	MTUS1
structural_interaction_variant	MTUS1
structural_interaction_variant	MTUS1
structural_interaction_variant	MTUS1
structural_interaction_variant	MTUS1
structural_interaction_variant	MTUS1
structural_interaction_variant	MTUS1
structural_interaction_variant	MTUS1
frameshift_variant	MTUS1
structural_interaction_variant	MTUS1
structural_interaction_variant	MTUS1
missense_variant&splice_region_variant	FGL1
structural_interaction_variant	FGL1
stop_gained	FGL1
structural_interaction_variant	ASAH1
structural_interaction_variant	PSD3
structural_interaction_variant	PSD3
structural_interaction_variant	PSD3
structural_interaction_variant	PSD3
structural_interaction_variant	PSD3
structural_interaction_variant	PSD3
structural_interaction_variant	SH2D4A

structural_interaction_variant	CSGALNACT1
structural_interaction_variant	CSGALNACT1
structural_interaction_variant	CSGALNACT1
structural_interaction_variant	CSGALNACT1
structural_interaction_variant	LPL
structural_interaction_variant	SLC18A1
structural_interaction_variant	SLC18A1
structural_interaction_variant	SLC18A1
structural_interaction_variant	SLC18A1
stop_gained	SLC18A1
structural_interaction_variant	SLC18A1
structural_interaction_variant	SLC18A1
structural_interaction_variant	LZTS1
structural_interaction_variant	LZTS1
structural_interaction_variant	XPO7
structural_interaction_variant	NPM2
structural_interaction_variant	DMTN
structural_interaction_variant	DMTN
structural_interaction_variant	DMTN
structural_interaction_variant	DMTN
missense_variant&splice_region_variant	FAM160B2
structural_interaction_variant	FAM160B2
structural_interaction_variant	FAM160B2
structural_interaction_variant	FAM160B2
structural_interaction_variant	FAM160B2
structural_interaction_variant	FAM160B2
structural_interaction_variant	FAM160B2
stop_gained	FAM160B2
structural_interaction_variant	FAM160B2
structural_interaction_variant	FAM160B2
structural_interaction_variant	LGI3
frameshift_variant	SFTPC
structural_interaction_variant	BMP1
structural_interaction_variant	BMP1
structural_interaction_variant	BMP1
structural_interaction_variant	BMP1
structural_interaction_variant	PHYHIP
structural_interaction_variant	POLR3D
frameshift_variant	POLR3D
structural_interaction_variant	POLR3D
structural_interaction_variant	PIWIL2
structural_interaction_variant	PIWIL2
structural_interaction_variant	PPP3CC
structural_interaction_variant	PPP3CC
structural_interaction_variant	SORBS3
structural_interaction_variant	SORBS3
structural_interaction_variant	SORBS3
structural_interaction_variant	SORBS3

structural_interaction_variant	SORBS3
structural_interaction_variant	SORBS3
structural_interaction_variant	C8orf58
structural_interaction_variant	CCAR2
structural_interaction_variant	BIN3
structural_interaction_variant	BIN3
structural_interaction_variant	BIN3
structural_interaction_variant	BIN3
stop_gained	PEBP4
frameshift_variant	PEBP4
frameshift_variant	PEBP4
structural_interaction_variant	TNFRSF10B
structural_interaction_variant	TNFRSF10B
frameshift_variant	TNFRSF10B
frameshift_variant	TNFRSF10B
structural_interaction_variant	TNFRSF10B
structural_interaction_variant	TNFRSF10B
frameshift_variant	TNFRSF10C
structural_interaction_variant	TNFRSF10C
stop_gained&splice_region_variant	TNFRSF10D
splice_acceptor_variant&intron_variant	TNFRSF10D
structural_interaction_variant	TNFRSF10A
stop_gained	TNFRSF10A
structural_interaction_variant	TNFRSF10A
structural_interaction_variant	TNFRSF10A
structural_interaction_variant	R3HCC1
structural_interaction_variant	R3HCC1
structural_interaction_variant	LOXL2
structural_interaction_variant	LOXL2
structural_interaction_variant	ENTPD4
frameshift_variant	ENTPD4
structural_interaction_variant	ENTPD4
structural_interaction_variant	ENTPD4
structural_interaction_variant	ENTPD4
structural_interaction_variant	ENTPD4
stop_gained	SLC25A37
structural_interaction_variant	NKX2-6
structural_interaction_variant	NKX2-6
structural_interaction_variant	STC1
frameshift_variant&splice_region_variant	ADAM28
structural_interaction_variant	ADAMDEC1
structural_interaction_variant	ADAMDEC1
structural_interaction_variant	ADAM7
missense_variant&splice_region_variant	ADAM7
structural_interaction_variant	ADAM7
splice_acceptor_variant&intron_variant	ADAM7
structural_interaction_variant	ADAM7
structural_interaction_variant	NEFM

structural_interaction_variant	NEFM
structural_interaction_variant	DOCK5
structural_interaction_variant	CDCA2
structural_interaction_variant	CDCA2
structural_interaction_variant	CDCA2
structural_interaction_variant	CDCA2
structural_interaction_variant	CDCA2
structural_interaction_variant	CDCA2
structural_interaction_variant	CDCA2
structural_interaction_variant	CDCA2
structural_interaction_variant	CDCA2
structural_interaction_variant	EBF2
structural_interaction_variant	EBF2
structural_interaction_variant	PPP2R2A
structural_interaction_variant	BNIP3L
structural_interaction_variant	PNMA2
missense_variant&splice_region_variant	DPYSL2
structural_interaction_variant	ADRA1A
structural_interaction_variant	STMN4
structural_interaction_variant	STMN4
structural_interaction_variant	PTK2B
structural_interaction_variant	PTK2B
structural_interaction_variant	PTK2B
structural_interaction_variant	PTK2B
structural_interaction_variant	EPHX2
structural_interaction_variant	EPHX2
frameshift_variant	SCARA3
structural_interaction_variant	SCARA3
structural_interaction_variant	ESCO2
structural_interaction_variant	ESCO2
missense_variant&splice_region_variant	NUGGC
structural_interaction_variant	NUGGC
structural_interaction_variant	NUGGC
structural_interaction_variant	ELP3
structural_interaction_variant	ELP3
structural_interaction_variant	ELP3
frameshift_variant	ELP3
frameshift_variant	ELP3
structural_interaction_variant	PNOC
structural_interaction_variant	PNOC
structural_interaction_variant	PNOC
structural_interaction_variant	ZNF395
structural_interaction_variant	FBXO16
structural_interaction_variant	FZD3
stop_gained	FZD3
splice_donor_variant&intron_variant	INTS9
structural_interaction_variant	INTS9
structural_interaction_variant	KIF13B

structural_interaction_variant	KIF13B
structural_interaction_variant	KIF13B
structural_interaction_variant	TMEM66
conservative_inframe_deletion	TMEM66
structural_interaction_variant	TMEM66
structural_interaction_variant	TMEM66
frameshift_variant	MBOAT4
structural_interaction_variant	MBOAT4
missense_variant&splice_region_variant	MBOAT4
structural_interaction_variant	TEX15
structural_interaction_variant	TEX15
frameshift_variant	TEX15
frameshift_variant&stop_gained	TEX15
structural_interaction_variant	TEX15
structural_interaction_variant	TEX15
structural_interaction_variant	TEX15
structural_interaction_variant	TEX15
structural_interaction_variant	TEX15
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structural_interaction_variant	TEX15
structural_interaction_variant	TEX15
structural_interaction_variant	TEX15
structural_interaction_variant	TEX15
structural_interaction_variant	TEX15
structural_interaction_variant	TEX15
stop_gained	WRN
structural_interaction_variant	NRG1
structural_interaction_variant	NRG1
structural_interaction_variant	NRG1
structural_interaction_variant	NRG1
structural_interaction_variant	FUT10
structural_interaction_variant	FUT10
structural_interaction_variant	MAK16
frameshift_variant	TTI2
structural_interaction_variant	UNC5D
structural_interaction_variant	UNC5D
structural_interaction_variant	UNC5D
structural_interaction_variant	UNC5D
structural_interaction_variant	UNC5D
structural_interaction_variant	UNC5D
structural_interaction_variant	UNC5D
structural_interaction_variant	UNC5D
structural_interaction_variant	UNC5D
structural_interaction_variant	KCNU1
structural_interaction_variant	KCNU1
stop_gained	KCNU1
structural_interaction_variant	RP11-863K10.7
structural_interaction_variant	GPR124

structural_interaction_variant	GPR124
structural_interaction_variant	GPR124
structural_interaction_variant	GPR124
structural_interaction_variant	BRF2
frameshift_variant	BRF2
structural_interaction_variant	BRF2
structural_interaction_variant	RAB11FIP1
structural_interaction_variant	RAB11FIP1
structural_interaction_variant	RAB11FIP1
structural_interaction_variant	RAB11FIP1
structural_interaction_variant	RAB11FIP1
structural_interaction_variant	RAB11FIP1
frameshift_variant	GOT1L1
structural_interaction_variant	GOT1L1
structural_interaction_variant	GOT1L1
frameshift_variant	GOT1L1
structural_interaction_variant	ADRB3
structural_interaction_variant	LSM1
structural_interaction_variant	BAG4
frameshift_variant	BAG4
structural_interaction_variant	DDHD2
structural_interaction_variant	PPAPDC1B
structural_interaction_variant	PPAPDC1B
structural_interaction_variant	WHSC1L1
structural_interaction_variant	WHSC1L1
structural_interaction_variant	WHSC1L1
structural_interaction_variant	WHSC1L1
structural_interaction_variant	FGFR1
structural_interaction_variant	TACC1
structural_interaction_variant	TACC1
structural_interaction_variant	PLEKHA2
frameshift_variant	HTRA4
splice_acceptor_variant&intron_variant	ADAM32
structural_interaction_variant	ADAM32
structural_interaction_variant	ADAM32
structural_interaction_variant	ADAM32
structural_interaction_variant	ADAM18
stop_gained	ADAM18
structural_interaction_variant	ADAM18
structural_interaction_variant	ADAM18
structural_interaction_variant	ADAM18
structural_interaction_variant	ADAM18
frameshift_variant	ADAM18
structural_interaction_variant	ADAM18
structural_interaction_variant	ADAM18
structural_interaction_variant	ADAM18
missense_variant&splice_region_variant	ADAM2
structural_interaction_variant	IDO1

structural_interaction_variant	IDO1
missense_variant&splice_region_variant	IDO2
structural_interaction_variant	C8orf4
structural_interaction_variant	ZMAT4
structural_interaction_variant	ZMAT4
structural_interaction_variant	ZMAT4
structural_interaction_variant	SFRP1
structural_interaction_variant	SFRP1
structural_interaction_variant	GINS4
structural_interaction_variant	GINS4
structural_interaction_variant	GINS4
structural_interaction_variant	GINS4
structural_interaction_variant	AGPAT6
structural_interaction_variant	PLAT
stop_gained	PLAT
structural_interaction_variant	POLB
structural_interaction_variant	POLB
frameshift_variant	DKK4
structural_interaction_variant	VDAC3
structural_interaction_variant	SMIM19
structural_interaction_variant	CHRNB3
frameshift_variant	CHRNB3
structural_interaction_variant	CHRNB3
structural_interaction_variant	CHRNB3
structural_interaction_variant	CHRNB3
structural_interaction_variant	CHRNB3
stop_gained	CHRNB3
structural_interaction_variant	CHRNB3
structural_interaction_variant	CHRNB3
structural_interaction_variant	CHRNB3
structural_interaction_variant	CHRNA6
missense_variant&splice_region_variant	CHRNA6
structural_interaction_variant	HOOK3
stop_gained	HGSNAT
frameshift_variant	HGSNAT
splice_acceptor_variant&intron_variant	POTEA
frameshift_variant	SPIDR
structural_interaction_variant	SPIDR
structural_interaction_variant	SPIDR
frameshift_variant	SPIDR
structural_interaction_variant	SPIDR
structural_interaction_variant	SPIDR
frameshift_variant	SPIDR
structural_interaction_variant	CEBPD
structural_interaction_variant	PRKDC
structural_interaction_variant	PRKDC
structural_interaction_variant	PRKDC
structural_interaction_variant	PRKDC

structural_interaction_variant	PRKDC
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structural_interaction_variant	PRKDC
structural_interaction_variant	PRKDC
structural_interaction_variant	PRKDC
structural_interaction_variant	PRKDC
stop_gained	EFCAB1
structural_interaction_variant	SNTG1
frameshift_variant	SNTG1
structural_interaction_variant	PXDNL
structural_interaction_variant	PXDNL
structural_interaction_variant	PXDNL
splice_acceptor_variant&intron_variant	PXDNL
structural_interaction_variant	PXDNL
structural_interaction_variant	PXDNL
structural_interaction_variant	FAM150A
missense_variant&splice_region_variant	RB1CC1
structural_interaction_variant	RB1CC1
structural_interaction_variant	RB1CC1
splice_donor_variant&intron_variant	RB1CC1
structural_interaction_variant	RB1CC1
structural_interaction_variant	RB1CC1
conservative_inframe_deletion	RGS20
structural_interaction_variant	RP1
structural_interaction_variant	RP1
structural_interaction_variant	RP1
structural_interaction_variant	RP1
frameshift_variant	RP1
structural_interaction_variant	XKR4
structural_interaction_variant	XKR4
structural_interaction_variant	XKR4
splice_donor_variant&intron_variant	TMEM68
structural_interaction_variant	TGS1
structural_interaction_variant	TGS1
structural_interaction_variant	TGS1
structural_interaction_variant	TGS1
structural_interaction_variant	TGS1
structural_interaction_variant	TGS1
structural_interaction_variant	TGS1
structural_interaction_variant	TGS1
structural_interaction_variant	LYN
structural_interaction_variant	CHCHD7
structural_interaction_variant	CHCHD7
missense_variant&splice_region_variant	CHCHD7

structural_interaction_variant	CHCHD7
structural_interaction_variant	SDR16C5
structural_interaction_variant	SDR16C5
start_lost	SDR16C5
structural_interaction_variant	IMPAD1
structural_interaction_variant	FAM110B
structural_interaction_variant	FAM110B
structural_interaction_variant	UBXN2B
structural_interaction_variant	UBXN2B
structural_interaction_variant	CYP7A1
frameshift_variant	CYP7A1
structural_interaction_variant	CYP7A1
stop_gained	NSMAF
structural_interaction_variant	NSMAF
structural_interaction_variant	NSMAF
structural_interaction_variant	TOX
structural_interaction_variant	TOX
structural_interaction_variant	TOX
stop_gained	ASPH
structural_interaction_variant	NKAIN3
structural_interaction_variant	NKAIN3
structural_interaction_variant	NKAIN3
splice_donor_variant&intron_variant	GGH
structural_interaction_variant	GGH
missense_variant&splice_region_variant	YTHDF3
structural_interaction_variant	BHLHE22
structural_interaction_variant	BHLHE22
structural_interaction_variant	CYP7B1
structural_interaction_variant	CYP7B1
missense_variant&splice_region_variant	CYP7B1
structural_interaction_variant	ARMC1
structural_interaction_variant	MTFR1
structural_interaction_variant	MTFR1
structural_interaction_variant	DNAJC5B
structural_interaction_variant	DNAJC5B
structural_interaction_variant	TRIM55
structural_interaction_variant	RRS1
structural_interaction_variant	RRS1
structural_interaction_variant	RRS1
structural_interaction_variant	RRS1
stop_gained	RRS1
structural_interaction_variant	ADHFE1
structural_interaction_variant	ADHFE1
structural_interaction_variant	C8orf46
missense_variant&splice_region_variant	C8orf46
structural_interaction_variant	MYBL1
structural_interaction_variant	VCPIP1
structural_interaction_variant	MCMDC2

structural_interaction_variant	MCMDC2
splice_donor_variant&intron_variant	PPP1R42
structural_interaction_variant	PPP1R42
structural_interaction_variant	COPS5
structural_interaction_variant	COPS5
structural_interaction_variant	CPA6
structural_interaction_variant	PREX2
structural_interaction_variant	PREX2
structural_interaction_variant	PREX2
structural_interaction_variant	PREX2
structural_interaction_variant	PREX2
structural_interaction_variant	RP11-664D7.4
structural_interaction_variant	C8orf34
structural_interaction_variant	C8orf34
structural_interaction_variant	C8orf34
structural_interaction_variant	C8orf34
stop_gained	SULF1
structural_interaction_variant	SULF1
structural_interaction_variant	SULF1
missense_variant&splice_region_variant	SULF1
structural_interaction_variant	SLCO5A1
structural_interaction_variant	SLCO5A1
structural_interaction_variant	SLCO5A1
structural_interaction_variant	SLCO5A1
structural_interaction_variant	PRDM14
structural_interaction_variant	PRDM14
splice_donor_variant&intron_variant	NCOA2
structural_interaction_variant	NCOA2
structural_interaction_variant	NCOA2
structural_interaction_variant	NCOA2
structural_interaction_variant	NCOA2
structural_interaction_variant	NCOA2
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structural_interaction_variant	NCOA2
structural_interaction_variant	NCOA2
structural_interaction_variant	NCOA2
structural_interaction_variant	NCOA2
frameshift_variant	TRAM1
structural_interaction_variant	LACTB2
structural_interaction_variant	LACTB2
structural_interaction_variant	LACTB2
structural_interaction_variant	XKR9
structural_interaction_variant	XKR9
structural_interaction_variant	MSC
structural_interaction_variant	MSC

structural_interaction_variant	MSC
structural_interaction_variant	MSC
structural_interaction_variant	MSC
stop_gained&splice_region_variant	TRPA1
stop_gained	TRPA1
structural_interaction_variant	KCNB2
structural_interaction_variant	KCNB2
structural_interaction_variant	SBSPON
structural_interaction_variant	SBSPON
structural_interaction_variant	RPL7
structural_interaction_variant	RDH10
structural_interaction_variant	RDH10
structural_interaction_variant	RDH10
structural_interaction_variant	RDH10
structural_interaction_variant	RDH10
structural_interaction_variant	STAU2
structural_interaction_variant	STAU2
stop_gained	TMEM70
structural_interaction_variant	LY96
structural_interaction_variant	JPH1
structural_interaction_variant	JPH1
structural_interaction_variant	JPH1
structural_interaction_variant	GDAP1
stop_gained	GDAP1
structural_interaction_variant	PI15
structural_interaction_variant	PI15
structural_interaction_variant	PI15
stop_gained	CRISPLD1
structural_interaction_variant	CRISPLD1
structural_interaction_variant	CRISPLD1
structural_interaction_variant	CRISPLD1
stop_gained	CRISPLD1
structural_interaction_variant	HNF4G
structural_interaction_variant	HNF4G
structural_interaction_variant	ZFHX4
structural_interaction_variant	ZFHX4
structural_interaction_variant	ZFHX4
structural_interaction_variant	ZFHX4
structural_interaction_variant	ZFHX4
structural_interaction_variant	ZFHX4
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structural_interaction_variant	ZFHX4
structural_interaction_variant	ZFHX4
structural_interaction_variant	ZFHX4
structural_interaction_variant	ZFHX4

structural_interaction_variant	ZC2HC1A
structural_interaction_variant	ZC2HC1A
structural_interaction_variant	ZC2HC1A
frameshift_variant	IL7
structural_interaction_variant	IL7
structural_interaction_variant	STMN2
structural_interaction_variant	HEY1
structural_interaction_variant	TPD52
structural_interaction_variant	ZBTB10
structural_interaction_variant	ZNF704
structural_interaction_variant	PAG1
structural_interaction_variant	PAG1
structural_interaction_variant	PAG1
structural_interaction_variant	PAG1
structural_interaction_variant	FABP9
structural_interaction_variant	FABP4
structural_interaction_variant	FABP12
structural_interaction_variant	SLC10A5
structural_interaction_variant	ZFAND1
structural_interaction_variant	SNX16
structural_interaction_variant	RALYL
structural_interaction_variant	LRRCC1
splice_donor_variant&intron_variant	LRRCC1
structural_interaction_variant	E2F5
structural_interaction_variant	E2F5
frameshift_variant	C8orf59
structural_interaction_variant	CA1
start_lost	CA1
frameshift_variant	CA3
structural_interaction_variant	CA3
missense_variant&splice_region_variant	CA3
frameshift_variant	PSKH2
structural_interaction_variant	SLC7A13
structural_interaction_variant	SLC7A13
structural_interaction_variant	SLC7A13
structural_interaction_variant	SLC7A13
structural_interaction_variant	WWP1
structural_interaction_variant	WWP1
structural_interaction_variant	WWP1
structural_interaction_variant	RMDN1
structural_interaction_variant	CPNE3
structural_interaction_variant	CPNE3
frameshift_variant	CNGB3
frameshift_variant	CNBD1
structural_interaction_variant	CNBD1
structural_interaction_variant	CNBD1
structural_interaction_variant	MMP16
structural_interaction_variant	MMP16

missense_variant&splice_region_variant	MMP16
structural_interaction_variant	MMP16
structural_interaction_variant	RIPK2
structural_interaction_variant	RIPK2
structural_interaction_variant	RIPK2
structural_interaction_variant	RIPK2
structural_interaction_variant	DECR1
structural_interaction_variant	DECR1
structural_interaction_variant	DECR1
structural_interaction_variant	DECR1
structural_interaction_variant	TMEM55A
structural_interaction_variant	TMEM55A
structural_interaction_variant	LRRC69
structural_interaction_variant	SLC26A7
structural_interaction_variant	RUNX1T1
structural_interaction_variant	RBM12B
structural_interaction_variant	RBM12B
structural_interaction_variant	RBM12B
missense_variant&splice_region_variant	TMEM67
structural_interaction_variant	TMEM67
structural_interaction_variant	TMEM67
structural_interaction_variant	TMEM67
structural_interaction_variant	CDH17
structural_interaction_variant	RAD54B
stop_gained	RAD54B
structural_interaction_variant	RAD54B
structural_interaction_variant	RAD54B
structural_interaction_variant	FSBP
structural_interaction_variant	KIAA1429
structural_interaction_variant	KIAA1429
structural_interaction_variant	KIAA1429
frameshift_variant	DPY19L4
structural_interaction_variant	DPY19L4
structural_interaction_variant	INTS8
structural_interaction_variant	INTS8
missense_variant&splice_region_variant	INTS8
structural_interaction_variant	CCNE2
structural_interaction_variant	NDUFAF6
structural_interaction_variant	NDUFAF6
structural_interaction_variant	NDUFAF6
structural_interaction_variant	GDF6
structural_interaction_variant	MTERFD1
stop_gained&splice_region_variant	MTERFD1
structural_interaction_variant	MTERFD1
structural_interaction_variant	MTERFD1
structural_interaction_variant	PTDSS1
stop_gained	SDC2
structural_interaction_variant	SDC2

structural_interaction_variant	CPQ
structural_interaction_variant	CPQ
structural_interaction_variant	CPQ
structural_interaction_variant	MATN2
structural_interaction_variant	MATN2
structural_interaction_variant	MATN2
structural_interaction_variant	MATN2
structural_interaction_variant	MATN2
structural_interaction_variant	HRSP12
splice_acceptor_variant&intron_variant	HRSP12
structural_interaction_variant	HRSP12
structural_interaction_variant	NIPAL2
structural_interaction_variant	NIPAL2
structural_interaction_variant	NIPAL2
structural_interaction_variant	KCNS2
structural_interaction_variant	STK3
structural_interaction_variant	STK3
stop_gained	VPS13B
frameshift_variant	VPS13B
frameshift_variant	VPS13B
stop_gained	VPS13B
structural_interaction_variant	RGS22
missense_variant&splice_region_variant	RGS22
structural_interaction_variant	RGS22
structural_interaction_variant	FBXO43
structural_interaction_variant	FBXO43
structural_interaction_variant	POLR2K
structural_interaction_variant	RNF19A
structural_interaction_variant	RNF19A
structural_interaction_variant	SNX31
missense_variant&splice_region_variant	SNX31
structural_interaction_variant	ZNF706
structural_interaction_variant	GRHL2
structural_interaction_variant	NCALD
missense_variant&splice_region_variant	RRM2B
structural_interaction_variant	UBR5
structural_interaction_variant	UBR5
structural_interaction_variant	UBR5
structural_interaction_variant	UBR5
structural_interaction_variant	UBR5
structural_interaction_variant	UBR5
structural_interaction_variant	ODF1
frameshift_variant	ODF1
structural_interaction_variant	KLF10
structural_interaction_variant	KLF10
structural_interaction_variant	KLF10
structural_interaction_variant	AZIN1
structural_interaction_variant	AZIN1

structural_interaction_variant	AZIN1
structural_interaction_variant	AZIN1
structural_interaction_variant	ATP6V1C1
structural_interaction_variant	ATP6V1C1
structural_interaction_variant	BAALC
structural_interaction_variant	BAALC
structural_interaction_variant	FZD6
stop_gained&splice_region_variant	SLC25A32
missense_variant&splice_region_variant	DCAF13
structural_interaction_variant	RIMS2
structural_interaction_variant	RIMS2
structural_interaction_variant	RIMS2
structural_interaction_variant	RIMS2
structural_interaction_variant	RIMS2
structural_interaction_variant	RIMS2
structural_interaction_variant	RIMS2
structural_interaction_variant	RIMS2
structural_interaction_variant	RIMS2
structural_interaction_variant	DCSTAMP
structural_interaction_variant	DCSTAMP
structural_interaction_variant	DCSTAMP
structural_interaction_variant	DPYS
structural_interaction_variant	DPYS
structural_interaction_variant	LRP12
structural_interaction_variant	OXR1
structural_interaction_variant	OXR1
structural_interaction_variant	OXR1
structural_interaction_variant	RSPO2
structural_interaction_variant	EIF3E
stop_gained	TRHR
structural_interaction_variant	TRHR
structural_interaction_variant	NUDCD1
structural_interaction_variant	NUDCD1
structural_interaction_variant	NUDCD1
structural_interaction_variant	ENY2
structural_interaction_variant	ENY2
structural_interaction_variant	ENY2
frameshift_variant	PKHD1L1
splice_acceptor_variant&intron_variant	PKHD1L1
structural_interaction_variant	PKHD1L1
frameshift_variant	PKHD1L1
splice_donor_variant&intron_variant	PKHD1L1
structural_interaction_variant	PKHD1L1
structural_interaction_variant	PKHD1L1
structural_interaction_variant	PKHD1L1
structural_interaction_variant	PKHD1L1
frameshift_variant	PKHD1L1
structural_interaction_variant	PKHD1L1

structural_interaction_variant	PKHD1L1
structural_interaction_variant	PKHD1L1
structural_interaction_variant	PKHD1L1
structural_interaction_variant	PKHD1L1
frameshift_variant	PKHD1L1
structural_interaction_variant	PKHD1L1
structural_interaction_variant	PKHD1L1
structural_interaction_variant	PKHD1L1
stop_gained	PKHD1L1
structural_interaction_variant	PKHD1L1
structural_interaction_variant	PKHD1L1
structural_interaction_variant	PKHD1L1
structural_interaction_variant	PKHD1L1
structural_interaction_variant	EBAG9
structural_interaction_variant	SYBU
structural_interaction_variant	KCNV1
structural_interaction_variant	CSMD3
structural_interaction_variant	CSMD3
structural_interaction_variant	CSMD3
structural_interaction_variant	CSMD3
structural_interaction_variant	CSMD3
structural_interaction_variant	CSMD3
structural_interaction_variant	CSMD3
missense_variant&splice_region_variant	CSMD3
structural_interaction_variant	CSMD3
structural_interaction_variant	CSMD3
structural_interaction_variant	CSMD3
structural_interaction_variant	CSMD3
structural_interaction_variant	CSMD3
structural_interaction_variant	CSMD3
structural_interaction_variant	SLC30A8
structural_interaction_variant	SLC30A8
structural_interaction_variant	MED30
structural_interaction_variant	SAMD12
structural_interaction_variant	TNFRSF11B
structural_interaction_variant	COLEC10
structural_interaction_variant	MAL2
structural_interaction_variant	MAL2
missense_variant&splice_region_variant	TAF2
structural_interaction_variant	TAF2
structural_interaction_variant	DEPTOR
structural_interaction_variant	DEPTOR
structural_interaction_variant	COL14A1
structural_interaction_variant	COL14A1
structural_interaction_variant	COL14A1
structural_interaction_variant	COL14A1
structural_interaction_variant	COL14A1
frameshift_variant	COL14A1

frameshift_variant	COL14A1
structural_interaction_variant	COL14A1
stop_gained	COL14A1
structural_interaction_variant	COL14A1
structural_interaction_variant	MTBP
structural_interaction_variant	MTBP
structural_interaction_variant	MTBP
structural_interaction_variant	MTBP
disruptive_inframe_deletion	MTBP
structural_interaction_variant	SNTB1
structural_interaction_variant	SNTB1
stop_gained	HAS2
structural_interaction_variant	TBC1D31
structural_interaction_variant	TBC1D31
structural_interaction_variant	TBC1D31
structural_interaction_variant	TBC1D31
structural_interaction_variant	TBC1D31
structural_interaction_variant	TBC1D31
stop_gained	TBC1D31
structural_interaction_variant	TBC1D31
missense_variant&splice_region_variant	FAM83A
structural_interaction_variant	FAM83A
structural_interaction_variant	ZHX1
structural_interaction_variant	ZHX1
structural_interaction_variant	ZHX1
splice_donor_variant&intron_variant	ATAD2
structural_interaction_variant	ATAD2
structural_interaction_variant	ATAD2
structural_interaction_variant	ATAD2
structural_interaction_variant	ATAD2
structural_interaction_variant	ATAD2
disruptive_inframe_deletion	ATAD2
structural_interaction_variant	FBXO32
structural_interaction_variant	ANXA13
missense_variant&splice_region_variant	ANXA13
missense_variant&splice_region_variant	ANXA13
stop_gained	ANXA13
structural_interaction_variant	ANXA13
structural_interaction_variant	FER1L6
frameshift_variant	FER1L6
structural_interaction_variant	FER1L6
structural_interaction_variant	FER1L6
structural_interaction_variant	FER1L6
splice_donor_variant&intron_variant	FER1L6
structural_interaction_variant	FER1L6
structural_interaction_variant	FER1L6
structural_interaction_variant	FER1L6
structural_interaction_variant	FER1L6

structural_interaction_variant	TRMT12
structural_interaction_variant	TRMT12
structural_interaction_variant	TRMT12
structural_interaction_variant	TRMT12
structural_interaction_variant	TRMT12
structural_interaction_variant	RNF139
structural_interaction_variant	RNF139
structural_interaction_variant	RNF139
structural_interaction_variant	RNF139
structural_interaction_variant	RNF139
structural_interaction_variant	TATDN1
frameshift_variant	TATDN1
stop_gained	NDUFB9
structural_interaction_variant	MTSS1
structural_interaction_variant	MTSS1
structural_interaction_variant	MTSS1
structural_interaction_variant	MTSS1
structural_interaction_variant	ZNF572
structural_interaction_variant	ZNF572
structural_interaction_variant	ZNF572
structural_interaction_variant	SQLE
structural_interaction_variant	KIAA0196
structural_interaction_variant	KIAA0196
structural_interaction_variant	KIAA0196
frameshift_variant	KIAA0196
structural_interaction_variant	KIAA0196
structural_interaction_variant	NSMCE2
structural_interaction_variant	NSMCE2
structural_interaction_variant	NSMCE2
structural_interaction_variant	TRIB1
structural_interaction_variant	FAM84B
structural_interaction_variant	FAM84B
frameshift_variant	FAM84B
structural_interaction_variant	FAM84B
structural_interaction_variant	MYC
structural_interaction_variant	MYC
structural_interaction_variant	MYC
structural_interaction_variant	MYC
structural_interaction_variant	MYC
structural_interaction_variant	MYC
missense_variant&splice_region_variant	ASAP1
structural_interaction_variant	ASAP1
structural_interaction_variant	ASAP1
structural_interaction_variant	ASAP1
structural_interaction_variant	ASAP1
structural_interaction_variant	ASAP1
structural_interaction_variant	ASAP1
structural_interaction_variant	ASAP1

missense_variant&splice_region_variant	ASAP1
structural_interaction_variant	ADCY8
structural_interaction_variant	ADCY8
structural_interaction_variant	EFR3A
stop_gained	EFR3A
structural_interaction_variant	OC90
structural_interaction_variant	HHLA1
structural_interaction_variant	HHLA1
structural_interaction_variant	HHLA1
splice_donor_variant&intron_variant	HHLA1
structural_interaction_variant	KCNQ3
structural_interaction_variant	KCNQ3
structural_interaction_variant	LRRC6
structural_interaction_variant	TMEM71
structural_interaction_variant	TMEM71
structural_interaction_variant	PHF20L1
splice_acceptor_variant&intron_variant	PHF20L1
stop_gained	TG
stop_gained	TG
structural_interaction_variant	TG
structural_interaction_variant	TG
structural_interaction_variant	WISP1
structural_interaction_variant	WISP1
structural_interaction_variant	WISP1
structural_interaction_variant	NDRG1
frameshift_variant	NDRG1
structural_interaction_variant	ST3GAL1
missense_variant&splice_region_variant	ST3GAL1
structural_interaction_variant	ZFAT
structural_interaction_variant	ZFAT
structural_interaction_variant	ZFAT
structural_interaction_variant	ZFAT
structural_interaction_variant	ZFAT
structural_interaction_variant	ZFAT
structural_interaction_variant	FAM135B
structural_interaction_variant	FAM135B
structural_interaction_variant	FAM135B
structural_interaction_variant	FAM135B
structural_interaction_variant	FAM135B
structural_interaction_variant	FAM135B
structural_interaction_variant	FAM135B
structural_interaction_variant	COL22A1
splice_donor_variant&intron_variant	COL22A1
structural_interaction_variant	COL22A1
structural_interaction_variant	COL22A1
stop_gained	COL22A1
splice_donor_variant&intron_variant	COL22A1
structural_interaction_variant	COL22A1

structural_interaction_variant	CHRAC1
structural_interaction_variant	PTK2
structural_interaction_variant	PTK2
structural_interaction_variant	PTK2
structural_interaction_variant	DENND3
structural_interaction_variant	DENND3
frameshift_variant	SLC45A4
stop_gained	MROH5
splice_donor_variant&intron_variant	MROH5
structural_interaction_variant	MROH5
missense_variant&splice_region_variant	TSNARE1
structural_interaction_variant	TSNARE1
structural_interaction_variant	TSNARE1
structural_interaction_variant	TSNARE1
structural_interaction_variant	BAI1
structural_interaction_variant	BAI1
structural_interaction_variant	BAI1
structural_interaction_variant	BAI1
structural_interaction_variant	BAI1
conservative_inframe_deletion	ARC
structural_interaction_variant	ARC
structural_interaction_variant	PSCA
frameshift_variant	PSCA
structural_interaction_variant	SLURP1
missense_variant&splice_region_variant	SLURP1
structural_interaction_variant	LY6E
structural_interaction_variant	LY6E
structural_interaction_variant	GLI4
structural_interaction_variant	GLI4
structural_interaction_variant	GLI4
structural_interaction_variant	GLI4
structural_interaction_variant	ZNF696
structural_interaction_variant	ZNF696
structural_interaction_variant	ZNF696
structural_interaction_variant	TOP1MT
structural_interaction_variant	TOP1MT
structural_interaction_variant	TOP1MT
stop_gained	TOP1MT
structural_interaction_variant	RHPN1
structural_interaction_variant	ZC3H3
stop_gained	ZC3H3
structural_interaction_variant	ZC3H3
conservative_inframe_deletion	ZC3H3
missense_variant&splice_region_variant	GSDMD
stop_gained	GSDMD
structural_interaction_variant	MROH6
structural_interaction_variant	MROH6
frameshift_variant&stop_lost&splice_region_variant	NAPRT1

structural_interaction_variant	NAPRT1
structural_interaction_variant	NAPRT1
structural_interaction_variant	NAPRT1
structural_interaction_variant	NAPRT1
structural_interaction_variant	NAPRT1
structural_interaction_variant	NAPRT1
structural_interaction_variant	EEF1D
structural_interaction_variant	EEF1D
structural_interaction_variant	EEF1D
structural_interaction_variant	EEF1D
structural_interaction_variant	ZNF623
frameshift_variant	ZNF623
structural_interaction_variant	ZNF707
structural_interaction_variant	MAPK15
structural_interaction_variant	MAPK15
structural_interaction_variant	MAPK15
stop_gained	FAM83H
structural_interaction_variant	FAM83H
structural_interaction_variant	EPPK1
structural_interaction_variant	EPPK1
structural_interaction_variant	EPPK1
structural_interaction_variant	EPPK1
frameshift_variant	EPPK1
structural_interaction_variant	EPPK1
structural_interaction_variant	EPPK1
structural_interaction_variant	EPPK1
structural_interaction_variant	EPPK1
structural_interaction_variant	EPPK1
structural_interaction_variant	EPPK1
structural_interaction_variant	PARP10
structural_interaction_variant	PARP10
structural_interaction_variant	PARP10
structural_interaction_variant	GRINA
structural_interaction_variant	GRINA
structural_interaction_variant	SPATC1
structural_interaction_variant	SPATC1
structural_interaction_variant	SPATC1
structural_interaction_variant	SPATC1
frameshift_variant	OPLAH
structural_interaction_variant	GPAA1
stop_gained	GPAA1
structural_interaction_variant	CYC1
structural_interaction_variant	CYC1
structural_interaction_variant	SHARPIN
structural_interaction_variant	SHARPIN
structural_interaction_variant	MAF1
structural_interaction_variant	MAF1

structural_interaction_variant	MROH1
structural_interaction_variant	MROH1
structural_interaction_variant	DGAT1
structural_interaction_variant	CPSF1
structural_interaction_variant	CPSF1
structural_interaction_variant	CPSF1
structural_interaction_variant	CPSF1
structural_interaction_variant	CPSF1
structural_interaction_variant	SLC39A4
structural_interaction_variant	VPS28
splice_acceptor_variant&intron_variant	VPS28
splice_acceptor_variant&intron_variant	VPS28
splice_donor_variant&intron_variant	TONSL
frameshift_variant	TONSL
structural_interaction_variant	TONSL
stop_gained	TONSL
structural_interaction_variant	TONSL
structural_interaction_variant	TONSL
structural_interaction_variant	KIFC2
structural_interaction_variant	KIFC2
structural_interaction_variant	KIFC2
structural_interaction_variant	FOXH1
frameshift_variant	MFSD3
structural_interaction_variant	MFSD3
structural_interaction_variant	RECQL4
structural_interaction_variant	LRRC24
structural_interaction_variant	ARHGAP39
structural_interaction_variant	ARHGAP39
structural_interaction_variant	ARHGAP39
structural_interaction_variant	ARHGAP39
structural_interaction_variant	ARHGAP39
structural_interaction_variant	ZNF251
structural_interaction_variant	ZNF251
stop_gained&splice_region_variant	ZNF251
structural_interaction_variant	RPL8
structural_interaction_variant	ZNF517
structural_interaction_variant	ZNF517
structural_interaction_variant	ZNF7
structural_interaction_variant	ZNF7
structural_interaction_variant	ZNF7
structural_interaction_variant	ZNF7
structural_interaction_variant	COMMD5
structural_interaction_variant	ZNF16
frameshift_variant	C8orf33
structural_interaction_variant	C9orf66
structural_interaction_variant	C9orf66
disruptive_inframe_insertion	C9orf66
frameshift_variant	C9orf66

start_lost	C9orf66
structural_interaction_variant	KANK1
structural_interaction_variant	KANK1
structural_interaction_variant	KANK1
structural_interaction_variant	KANK1
structural_interaction_variant	DMRT1
structural_interaction_variant	DMRT1
structural_interaction_variant	DMRT3
structural_interaction_variant	DMRT2
structural_interaction_variant	DMRT2
structural_interaction_variant	DMRT2
frameshift_variant	DMRT2
stop_gained	KCNV2
structural_interaction_variant	KIAA0020
stop_gained	KIAA0020
structural_interaction_variant	KIAA0020
structural_interaction_variant	KIAA0020
structural_interaction_variant	RFX3
structural_interaction_variant	GLIS3
structural_interaction_variant	SLC1A1
structural_interaction_variant	SLC1A1
structural_interaction_variant	SLC1A1
structural_interaction_variant	SPATA6L
structural_interaction_variant	SPATA6L
structural_interaction_variant	PPAPDC2
structural_interaction_variant	RCL1
structural_interaction_variant	RCL1
structural_interaction_variant	JAK2
structural_interaction_variant	JAK2
structural_interaction_variant	JAK2
structural_interaction_variant	JAK2
structural_interaction_variant	INSL6
structural_interaction_variant	INSL4
structural_interaction_variant	INSL4
structural_interaction_variant	INSL4
structural_interaction_variant	RLN2
structural_interaction_variant	RLN2
structural_interaction_variant	RLN1
structural_interaction_variant	RLN1
structural_interaction_variant	RLN1
structural_interaction_variant	CD274
structural_interaction_variant	PDCD1LG2
structural_interaction_variant	PDCD1LG2
structural_interaction_variant	KIAA1432
structural_interaction_variant	KIAA1432
missense_variant&splice_region_variant	KIAA1432
structural_interaction_variant	KIAA1432
structural_interaction_variant	KIAA1432

structural_interaction_variant	KIAA1432
structural_interaction_variant	KIAA1432
structural_interaction_variant	ERMP1
structural_interaction_variant	ERMP1
structural_interaction_variant	ERMP1
structural_interaction_variant	ERMP1
structural_interaction_variant	KIAA2026
structural_interaction_variant	KIAA2026
structural_interaction_variant	KIAA2026
structural_interaction_variant	KIAA2026
structural_interaction_variant	KIAA2026
structural_interaction_variant	KIAA2026
structural_interaction_variant	KIAA2026
structural_interaction_variant	KIAA2026
structural_interaction_variant	TPD52L3
structural_interaction_variant	TPD52L3
structural_interaction_variant	TPD52L3
structural_interaction_variant	TPD52L3
structural_interaction_variant	TPD52L3
structural_interaction_variant	UHRF2
structural_interaction_variant	UHRF2
structural_interaction_variant	GLDC
structural_interaction_variant	KDM4C
structural_interaction_variant	KDM4C
structural_interaction_variant	KDM4C
structural_interaction_variant	KDM4C
structural_interaction_variant	KDM4C
structural_interaction_variant	TMEM261
structural_interaction_variant	TMEM261
structural_interaction_variant	TMEM261
structural_interaction_variant	TMEM261
structural_interaction_variant	PTPRD
structural_interaction_variant	PTPRD
structural_interaction_variant	PTPRD
structural_interaction_variant	PTPRD
structural_interaction_variant	PTPRD
structural_interaction_variant	PTPRD
structural_interaction_variant	PTPRD
structural_interaction_variant	PTPRD
stop_gained	TYRP1
frameshift_variant	TYRP1
structural_interaction_variant	LURAP1L
stop_gained	MPDZ
frameshift_variant&splice_region_variant	MPDZ
stop_gained&splice_region_variant	MPDZ
structural_interaction_variant	MPDZ
structural_interaction_variant	MPDZ
structural_interaction_variant	ZDHHC21

stop_gained	FREM1
stop_gained	FREM1
structural_interaction_variant	FREM1
structural_interaction_variant	TTC39B
structural_interaction_variant	TTC39B
missense_variant&splice_region_variant	TTC39B
structural_interaction_variant	TTC39B
structural_interaction_variant	TTC39B
structural_interaction_variant	TTC39B
stop_gained	TTC39B
structural_interaction_variant	SNAPC3
frameshift_variant	SNAPC3
stop_gained	CCDC171
structural_interaction_variant	CCDC171
structural_interaction_variant	CCDC171
structural_interaction_variant	CCDC171
structural_interaction_variant	CCDC171
structural_interaction_variant	CCDC171
structural_interaction_variant	CCDC171
frameshift_variant	CCDC171
frameshift_variant	CCDC171
structural_interaction_variant	CCDC171
stop_gained	CCDC171
structural_interaction_variant	BNC2
structural_interaction_variant	BNC2
structural_interaction_variant	BNC2
structural_interaction_variant	BNC2
structural_interaction_variant	BNC2
structural_interaction_variant	BNC2
structural_interaction_variant	BNC2
structural_interaction_variant	BNC2
structural_interaction_variant	CNTLN
stop_gained	CNTLN
structural_interaction_variant	CNTLN
structural_interaction_variant	CNTLN
structural_interaction_variant	CNTLN
structural_interaction_variant	CNTLN
structural_interaction_variant	CNTLN
structural_interaction_variant	CNTLN
structural_interaction_variant	CNTLN
structural_interaction_variant	ADAMTSL1
structural_interaction_variant	ADAMTSL1
structural_interaction_variant	ADAMTSL1
structural_interaction_variant	ADAMTSL1
structural_interaction_variant	ADAMTSL1
structural_interaction_variant	ADAMTSL1
structural_interaction_variant	ADAMTSL1
structural_interaction_variant	ADAMTSL1

structural_interaction_variant	ADAMTSL1
structural_interaction_variant	ADAMTSL1
structural_interaction_variant	ADAMTSL1
structural_interaction_variant	FAM154A
structural_interaction_variant	FAM154A
structural_interaction_variant	FAM154A
stop_gained	PLIN2
structural_interaction_variant	PLIN2
structural_interaction_variant	DENND4C
structural_interaction_variant	DENND4C
frameshift_variant&stop_gained	DENND4C
structural_interaction_variant	DENND4C
structural_interaction_variant	DENND4C
frameshift_variant	RPS6
missense_variant&splice_region_variant	RPS6
structural_interaction_variant	SLC24A2
structural_interaction_variant	FOCAD
structural_interaction_variant	FOCAD
structural_interaction_variant	FOCAD
structural_interaction_variant	FOCAD
splice_acceptor_variant&intron_variant	FOCAD
structural_interaction_variant	FOCAD
structural_interaction_variant	FOCAD
missense_variant&splice_region_variant	FOCAD
structural_interaction_variant	FOCAD
stop_gained	FOCAD
structural_interaction_variant	PTPLAD2
structural_interaction_variant	PTPLAD2
structural_interaction_variant	IFNB1
structural_interaction_variant	IFNB1
structural_interaction_variant	IFNA8
structural_interaction_variant	IFNA8
structural_interaction_variant	MTAP
structural_interaction_variant	CDKN2A
structural_interaction_variant	DMRTA1
structural_interaction_variant	DMRTA1
structural_interaction_variant	DMRTA1
structural_interaction_variant	DMRTA1
structural_interaction_variant	ELAVL2
structural_interaction_variant	IZUMO3
structural_interaction_variant	IZUMO3
structural_interaction_variant	CAAP1
structural_interaction_variant	LRRC19
splice_acceptor_variant&intron_variant	LRRC19
structural_interaction_variant	IFT74
structural_interaction_variant	IFT74
structural_interaction_variant	IFT74
structural_interaction_variant	TEK

structural_interaction_variant	TEK
structural_interaction_variant	EQTN
structural_interaction_variant	MOB3B
structural_interaction_variant	IFNK
frameshift_variant	IFNK
structural_interaction_variant	IFNK
frameshift_variant	C9orf72
splice_donor_variant&intron_variant	ACO1
structural_interaction_variant	ACO1
structural_interaction_variant	ACO1
stop_gained	DDX58
structural_interaction_variant	DDX58
structural_interaction_variant	DDX58
structural_interaction_variant	DDX58
structural_interaction_variant	DDX58
structural_interaction_variant	DDX58
stop_gained	DDX58
structural_interaction_variant	NDUFB6
structural_interaction_variant	NDUFB6
frameshift_variant	APTX
structural_interaction_variant	B4GALT1
structural_interaction_variant	B4GALT1
structural_interaction_variant	B4GALT1
structural_interaction_variant	SPINK4
structural_interaction_variant	BAG1
structural_interaction_variant	BAG1
structural_interaction_variant	BAG1
structural_interaction_variant	NFX1
structural_interaction_variant	NFX1
structural_interaction_variant	NFX1
structural_interaction_variant	NFX1
structural_interaction_variant	NOL6
structural_interaction_variant	NOL6
structural_interaction_variant	NOL6
structural_interaction_variant	NOL6
structural_interaction_variant	NOL6
structural_interaction_variant	UBAP2
frameshift_variant	UBAP2
structural_interaction_variant	UBAP2
structural_interaction_variant	UBAP2
structural_interaction_variant	DCAF12
structural_interaction_variant	DCAF12
structural_interaction_variant	DCAF12
structural_interaction_variant	UBAP1
structural_interaction_variant	UBAP1
structural_interaction_variant	UBAP1
structural_interaction_variant	KIF24
stop_gained	KIF24

structural_interaction_variant	KIF24
structural_interaction_variant	KIF24
structural_interaction_variant	KIAA1161
structural_interaction_variant	KIAA1161
structural_interaction_variant	FAM219A
structural_interaction_variant	DNAI1
structural_interaction_variant	DNAI1
stop_gained	DNAI1
structural_interaction_variant	ARID3C
structural_interaction_variant	SIGMAR1
structural_interaction_variant	SIGMAR1
structural_interaction_variant	GALT
structural_interaction_variant	IL11RA
frameshift_variant	CCL19
structural_interaction_variant	C9orf131
structural_interaction_variant	C9orf131
stop_gained	C9orf131
structural_interaction_variant	C9orf131
structural_interaction_variant	C9orf131
structural_interaction_variant	C9orf131
structural_interaction_variant	C9orf131
structural_interaction_variant	C9orf131
frameshift_variant	FANCG
structural_interaction_variant	PIGO
structural_interaction_variant	PIGO
structural_interaction_variant	STOML2
structural_interaction_variant	STOML2
structural_interaction_variant	FAM214B
structural_interaction_variant	UNC13B
stop_gained	UNC13B
structural_interaction_variant	UNC13B
structural_interaction_variant	UNC13B
structural_interaction_variant	UNC13B
missense_variant&splice_region_variant	UNC13B
structural_interaction_variant	UNC13B
structural_interaction_variant	UNC13B
structural_interaction_variant	FAM166B
structural_interaction_variant	TESK1
structural_interaction_variant	TESK1
structural_interaction_variant	TESK1
structural_interaction_variant	TESK1
structural_interaction_variant	TESK1
structural_interaction_variant	CD72
frameshift_variant&stop_lost	CD72
structural_interaction_variant	CD72
frameshift_variant	CCDC107
structural_interaction_variant	ARHGEF39
splice_donor_variant&intron_variant	ARHGEF39

structural_interaction_variant	ARHGEF39
structural_interaction_variant	CA9
structural_interaction_variant	TLN1
structural_interaction_variant	TLN1
structural_interaction_variant	TLN1
missense_variant&splice_region_variant	TLN1
structural_interaction_variant	TLN1
structural_interaction_variant	TLN1
structural_interaction_variant	TLN1
structural_interaction_variant	TLN1
structural_interaction_variant	TLN1
structural_interaction_variant	TLN1
structural_interaction_variant	GBA2
structural_interaction_variant	GBA2
frameshift_variant	MSMP
structural_interaction_variant	NPR2
frameshift_variant	FAM221B
structural_interaction_variant	OR13J1
structural_interaction_variant	OR13J1
frameshift_variant	HRCT1
structural_interaction_variant	OR2S2
structural_interaction_variant	RECK
structural_interaction_variant	RECK
structural_interaction_variant	RECK
structural_interaction_variant	RECK
structural_interaction_variant	RECK
stop_gained	RECK
structural_interaction_variant	RECK
structural_interaction_variant	GLIPR2
structural_interaction_variant	CCIN
structural_interaction_variant	CCIN
structural_interaction_variant	CLTA
structural_interaction_variant	GNE
structural_interaction_variant	GNE
structural_interaction_variant	GNE
structural_interaction_variant	GNE
frameshift_variant	GNE
structural_interaction_variant	MELK
structural_interaction_variant	ZCCHC7
structural_interaction_variant	ZCCHC7
structural_interaction_variant	ZCCHC7
structural_interaction_variant	ZCCHC7
frameshift_variant	ZCCHC7
frameshift_variant	POLR1E
structural_interaction_variant	POLR1E
structural_interaction_variant	FBXO10
structural_interaction_variant	FBXO10
frameshift_variant	FBXO10

structural_interaction_variant	FBXO10
missense_variant&splice_region_variant	FBXO10
structural_interaction_variant	FBXO10
structural_interaction_variant	TOMM5
structural_interaction_variant	FRMPD1
structural_interaction_variant	FRMPD1
disruptive_inframe_deletion	FRMPD1
structural_interaction_variant	FRMPD1
stop_gained	FRMPD1
frameshift_variant	FRMPD1
stop_gained	FRMPD1
frameshift_variant	FRMPD1
structural_interaction_variant	FRMPD1
structural_interaction_variant	FRMPD1
structural_interaction_variant	FRMPD1
structural_interaction_variant	SHB
structural_interaction_variant	ALDH1B1
structural_interaction_variant	ALDH1B1
structural_interaction_variant	ALDH1B1
structural_interaction_variant	ALDH1B1
structural_interaction_variant	IGFBPL1
stop_gained	IGFBPL1
frameshift_variant&stop_gained	PGM5
structural_interaction_variant	PGM5
structural_interaction_variant	PGM5
structural_interaction_variant	PGM5
structural_interaction_variant	TMEM252
structural_interaction_variant	PIP5K1B
structural_interaction_variant	PIP5K1B
splice_acceptor_variant&intron_variant	PIP5K1B
structural_interaction_variant	PRKACG
structural_interaction_variant	FXN
structural_interaction_variant	TJP2
structural_interaction_variant	TJP2
stop_gained	TJP2
structural_interaction_variant	TJP2
structural_interaction_variant	TJP2
structural_interaction_variant	TJP2
structural_interaction_variant	FAM189A2
structural_interaction_variant	FAM189A2
structural_interaction_variant	FAM189A2
structural_interaction_variant	FAM189A2
structural_interaction_variant	PTAR1
structural_interaction_variant	PTAR1
structural_interaction_variant	PTAR1
frameshift_variant	C9orf135
structural_interaction_variant	C9orf135
structural_interaction_variant	C9orf135

structural_interaction_variant	MAMDC2
structural_interaction_variant	MAMDC2
structural_interaction_variant	MAMDC2
structural_interaction_variant	MAMDC2
structural_interaction_variant	MAMDC2
structural_interaction_variant	SMC5
structural_interaction_variant	SMC5
structural_interaction_variant	KLF9
structural_interaction_variant	TRPM3
structural_interaction_variant	TRPM3
stop_gained	TRPM3
structural_interaction_variant	TRPM3
structural_interaction_variant	TRPM3
structural_interaction_variant	TRPM3
structural_interaction_variant	TRPM3
structural_interaction_variant	TMEM2
structural_interaction_variant	TMEM2
structural_interaction_variant	TMEM2
structural_interaction_variant	TMEM2
structural_interaction_variant	TMEM2
structural_interaction_variant	TMEM2
structural_interaction_variant	TMEM2
structural_interaction_variant	ABHD17B
structural_interaction_variant	ABHD17B
structural_interaction_variant	C9orf85
structural_interaction_variant	C9orf85
structural_interaction_variant	C9orf85
structural_interaction_variant	GDA
structural_interaction_variant	ZFAND5
stop_gained	TMC1
frameshift_variant	TMC1
structural_interaction_variant	ALDH1A1
missense_variant&splice_region_variant	ALDH1A1
structural_interaction_variant	ALDH1A1
structural_interaction_variant	ANXA1
structural_interaction_variant	TRPM6
structural_interaction_variant	C9orf41
structural_interaction_variant	C9orf41
structural_interaction_variant	NMRK1
structural_interaction_variant	NMRK1
structural_interaction_variant	PCSK5
structural_interaction_variant	PCSK5
structural_interaction_variant	PCSK5
structural_interaction_variant	PCSK5
structural_interaction_variant	PCSK5
structural_interaction_variant	PCSK5
structural_interaction_variant	PCSK5
stop_gained	PCSK5

structural_interaction_variant	PCSK5
structural_interaction_variant	GCNT1
structural_interaction_variant	PRUNE2
structural_interaction_variant	PRUNE2
structural_interaction_variant	PRUNE2
structural_interaction_variant	PRUNE2
structural_interaction_variant	PRUNE2
structural_interaction_variant	PRUNE2
structural_interaction_variant	PRUNE2
stop_gained	PRUNE2
structural_interaction_variant	PRUNE2
structural_interaction_variant	PRUNE2
structural_interaction_variant	PRUNE2
structural_interaction_variant	PRUNE2
structural_interaction_variant	PRUNE2
structural_interaction_variant	PRUNE2
structural_interaction_variant	PRUNE2
missense_variant&splice_region_variant	PRUNE2
structural_interaction_variant	PRUNE2
structural_interaction_variant	PRUNE2
stop_gained	VPS13A
structural_interaction_variant	GNA14
structural_interaction_variant	GNA14
structural_interaction_variant	GNA14
splice_acceptor_variant&intron_variant	GNA14
structural_interaction_variant	GNA14
structural_interaction_variant	GNAQ
structural_interaction_variant	CEP78
structural_interaction_variant	SPATA31D1
structural_interaction_variant	SPATA31D1
structural_interaction_variant	SPATA31D1
structural_interaction_variant	SPATA31D1
structural_interaction_variant	SPATA31D1
structural_interaction_variant	SPATA31D1
structural_interaction_variant	RASEF
structural_interaction_variant	RASEF
structural_interaction_variant	RASEF
structural_interaction_variant	RASEF
frameshift_variant	RASEF
structural_interaction_variant	RASEF
structural_interaction_variant	FRMD3
structural_interaction_variant	IDNK
structural_interaction_variant	UBQLN1
structural_interaction_variant	UBQLN1
structural_interaction_variant	UBQLN1
structural_interaction_variant	UBQLN1
structural_interaction_variant	UBQLN1
structural_interaction_variant	UBQLN1

structural_interaction_variant	UBQLN1
structural_interaction_variant	UBQLN1
structural_interaction_variant	KIF27
structural_interaction_variant	KIF27
structural_interaction_variant	KIF27
structural_interaction_variant	C9orf64
structural_interaction_variant	RMI1
structural_interaction_variant	RMI1
structural_interaction_variant	RMI1
structural_interaction_variant	RMI1
structural_interaction_variant	SLC28A3
structural_interaction_variant	SLC28A3
structural_interaction_variant	SLC28A3
structural_interaction_variant	SLC28A3
structural_interaction_variant	AGTPBP1
structural_interaction_variant	NAA35
structural_interaction_variant	NAA35
frameshift_variant&splice_region_variant	NAA35
structural_interaction_variant	NAA35
missense_variant&splice_region_variant	GOLM1
missense_variant&splice_region_variant	GOLM1
frameshift_variant	ZCCHC6
structural_interaction_variant	ZCCHC6
structural_interaction_variant	ZCCHC6
structural_interaction_variant	DAPK1
structural_interaction_variant	DAPK1
structural_interaction_variant	DAPK1
structural_interaction_variant	DAPK1
structural_interaction_variant	DAPK1
structural_interaction_variant	DAPK1
structural_interaction_variant	DAPK1
structural_interaction_variant	DAPK1
structural_interaction_variant	DAPK1
structural_interaction_variant	DAPK1
structural_interaction_variant	DAPK1
frameshift_variant	CTSL
structural_interaction_variant	SPATA31E1
frameshift_variant	SPATA31E1
frameshift_variant	SPATA31E1
structural_interaction_variant	SPATA31E1
structural_interaction_variant	SPATA31E1
structural_interaction_variant	SPATA31E1
structural_interaction_variant	SPATA31E1
stop_gained	CDK20
structural_interaction_variant	SPIN1
structural_interaction_variant	NXNL2
stop_gained	C9orf47
structural_interaction_variant	C9orf47

structural_interaction_variant	S1PR3
structural_interaction_variant	S1PR3
structural_interaction_variant	SHC3
structural_interaction_variant	SHC3
frameshift_variant	SECISBP2
structural_interaction_variant	SEMA4D
structural_interaction_variant	SEMA4D
structural_interaction_variant	SEMA4D
structural_interaction_variant	SEMA4D
structural_interaction_variant	SEMA4D
structural_interaction_variant	GADD45G
structural_interaction_variant	GADD45G
structural_interaction_variant	GADD45G
frameshift_variant	AUH
structural_interaction_variant	AUH
structural_interaction_variant	AUH
missense_variant&splice_region_variant	AUH
structural_interaction_variant	AUH
structural_interaction_variant	IARS
structural_interaction_variant	IARS
structural_interaction_variant	NOL8
structural_interaction_variant	NOL8
structural_interaction_variant	NOL8
structural_interaction_variant	NOL8
structural_interaction_variant	NOL8
structural_interaction_variant	NOL8
structural_interaction_variant	CENPP
structural_interaction_variant	CENPP
structural_interaction_variant	ECM2
structural_interaction_variant	ECM2
structural_interaction_variant	ECM2
frameshift_variant	IPPK
structural_interaction_variant	BICD2
structural_interaction_variant	ZNF484
structural_interaction_variant	FGD3
stop_gained	FGD3
structural_interaction_variant	FGD3
structural_interaction_variant	FGD3
structural_interaction_variant	C9orf89
structural_interaction_variant	NINJ1
structural_interaction_variant	WNK2
structural_interaction_variant	WNK2
structural_interaction_variant	WNK2
structural_interaction_variant	WNK2
structural_interaction_variant	WNK2
structural_interaction_variant	WNK2
structural_interaction_variant	C9orf129
structural_interaction_variant	FAM120A

structural_interaction_variant	FAM120A
structural_interaction_variant	PHF2
structural_interaction_variant	PHF2
structural_interaction_variant	PHF2
structural_interaction_variant	PTPDC1
structural_interaction_variant	ZNF169
structural_interaction_variant	ZNF169
stop_gained	ZNF169
structural_interaction_variant	ZNF169
structural_interaction_variant	ZNF169
structural_interaction_variant	ZNF169
structural_interaction_variant	HIATL1
structural_interaction_variant	HIATL1
structural_interaction_variant	HIATL1
structural_interaction_variant	FBP2
structural_interaction_variant	FBP2
frameshift_variant	FBP2
structural_interaction_variant	FBP1
structural_interaction_variant	C9orf3
structural_interaction_variant	C9orf3
structural_interaction_variant	C9orf3
structural_interaction_variant	FANCC
structural_interaction_variant	PTCH1
structural_interaction_variant	ERCC6L2
structural_interaction_variant	ERCC6L2
structural_interaction_variant	SLC35D2
structural_interaction_variant	ZNF367
structural_interaction_variant	ZNF367
structural_interaction_variant	HABP4
structural_interaction_variant	HABP4
structural_interaction_variant	HABP4
structural_interaction_variant	CDC14B
structural_interaction_variant	ZNF510
structural_interaction_variant	ZNF510
frameshift_variant	CTSV
missense_variant&splice_region_variant	CTSV
structural_interaction_variant	CTSV
structural_interaction_variant	CTSV
structural_interaction_variant	CTSV
structural_interaction_variant	CTSV
splice_donor_variant&intron_variant	CCDC180
missense_variant&splice_region_variant	CCDC180
structural_interaction_variant	CCDC180
structural_interaction_variant	CCDC180
structural_interaction_variant	CCDC180
structural_interaction_variant	CCDC180
structural_interaction_variant	TDRD7
frameshift_variant	TDRD7

structural_interaction_variant	TDRD7
structural_interaction_variant	TDRD7
structural_interaction_variant	TDRD7
structural_interaction_variant	TDRD7
structural_interaction_variant	TMOD1
structural_interaction_variant	TSTD2
structural_interaction_variant	TSTD2
stop_gained	TSTD2
structural_interaction_variant	TSTD2
structural_interaction_variant	NCBP1
structural_interaction_variant	FOXE1
structural_interaction_variant	HEMGN
structural_interaction_variant	HEMGN
stop_gained	HEMGN
structural_interaction_variant	NANS
structural_interaction_variant	NANS
stop_gained	NANS
structural_interaction_variant	NANS
stop_gained	TRIM14
structural_interaction_variant	CORO2A
structural_interaction_variant	TBC1D2
structural_interaction_variant	TBC1D2
splice_acceptor_variant&intron_variant	TBC1D2
structural_interaction_variant	TBC1D2
structural_interaction_variant	TBC1D2
structural_interaction_variant	TBC1D2
structural_interaction_variant	TBC1D2
structural_interaction_variant	TBC1D2
stop_gained	TBC1D2
structural_interaction_variant	TBC1D2
structural_interaction_variant	TBC1D2
structural_interaction_variant	TBC1D2
structural_interaction_variant	COL15A1
splice_donor_variant&intron_variant	COL15A1
structural_interaction_variant	COL15A1
structural_interaction_variant	TGFBR1
structural_interaction_variant	ALG2
structural_interaction_variant	NR4A3
structural_interaction_variant	NR4A3
structural_interaction_variant	NR4A3
frameshift_variant	INVS
structural_interaction_variant	INVS
structural_interaction_variant	TEX10
structural_interaction_variant	TEX10
structural_interaction_variant	TEX10
structural_interaction_variant	TEX10
structural_interaction_variant	TEX10
frameshift_variant	TMEFF1

structural_interaction_variant	TMEFF1
frameshift_variant	MURC
stop_gained	MURC
structural_interaction_variant	ZNF189
structural_interaction_variant	ZNF189
structural_interaction_variant	ZNF189
structural_interaction_variant	ZNF189
structural_interaction_variant	RNF20
structural_interaction_variant	GRIN3A
structural_interaction_variant	GRIN3A
structural_interaction_variant	GRIN3A
structural_interaction_variant	GRIN3A
structural_interaction_variant	GRIN3A
structural_interaction_variant	CYLC2
structural_interaction_variant	CYLC2
structural_interaction_variant	CYLC2
structural_interaction_variant	SMC2
structural_interaction_variant	SMC2
structural_interaction_variant	SMC2
structural_interaction_variant	SMC2
structural_interaction_variant	SMC2
structural_interaction_variant	OR13F1
structural_interaction_variant	OR13F1
structural_interaction_variant	OR13F1
stop_gained	OR13C3
structural_interaction_variant	OR13C8
structural_interaction_variant	OR13C8
structural_interaction_variant	OR13C8
structural_interaction_variant	OR13C8
structural_interaction_variant	OR13C2
structural_interaction_variant	OR13C2
structural_interaction_variant	OR13D1
frameshift_variant	NIPSNAP3A
structural_interaction_variant	NIPSNAP3B
structural_interaction_variant	ABCA1
stop_gained	ABCA1
structural_interaction_variant	FSD1L
structural_interaction_variant	FSD1L
structural_interaction_variant	TAL2
start_lost	TMEM38B
structural_interaction_variant	TMEM38B
structural_interaction_variant	ZNF462
structural_interaction_variant	ZNF462
structural_interaction_variant	ZNF462
structural_interaction_variant	ACTL7B
structural_interaction_variant	ACTL7B
stop_gained	IKBKAP
structural_interaction_variant	IKBKAP

splice_acceptor_variant&intron_variant	IKBKAP
structural_interaction_variant	IKBKAP
structural_interaction_variant	IKBKAP
structural_interaction_variant	CTNNAL1
structural_interaction_variant	CTNNAL1
structural_interaction_variant	CTNNAL1
structural_interaction_variant	CTNNAL1
structural_interaction_variant	CTNNAL1
structural_interaction_variant	CTNNAL1
stop_gained	TMEM245
structural_interaction_variant	TMEM245
structural_interaction_variant	TMEM245
structural_interaction_variant	TMEM245
structural_interaction_variant	TMEM245
structural_interaction_variant	TMEM245
structural_interaction_variant	EPB41L4B
structural_interaction_variant	EPB41L4B
structural_interaction_variant	PTPN3
structural_interaction_variant	PTPN3
structural_interaction_variant	PTPN3
structural_interaction_variant	PTPN3
structural_interaction_variant	PTPN3
structural_interaction_variant	PTPN3
structural_interaction_variant	PTPN3
structural_interaction_variant	PALM2
splice_donor_variant&intron_variant	PALM2-AKAP2
structural_interaction_variant	AKAP2
structural_interaction_variant	AKAP2
structural_interaction_variant	AKAP2
structural_interaction_variant	AKAP2
structural_interaction_variant	AKAP2
structural_interaction_variant	AKAP2
structural_interaction_variant	AKAP2
structural_interaction_variant	TXN
stop_gained	TXNDC8
structural_interaction_variant	SVEP1
structural_interaction_variant	SVEP1
structural_interaction_variant	SVEP1
structural_interaction_variant	SVEP1
structural_interaction_variant	SVEP1
structural_interaction_variant	SVEP1
structural_interaction_variant	SVEP1
structural_interaction_variant	SVEP1
structural_interaction_variant	SVEP1
structural_interaction_variant	SVEP1
structural_interaction_variant	SVEP1
structural_interaction_variant	LPAR1
structural_interaction_variant	LPAR1

frameshift_variant	OR2K2
structural_interaction_variant	OR2K2
structural_interaction_variant	OR2K2
structural_interaction_variant	KIAA0368
missense_variant&splice_region_variant	KIAA0368
structural_interaction_variant	KIAA0368
structural_interaction_variant	KIAA0368
structural_interaction_variant	KIAA0368
structural_interaction_variant	KIAA0368
stop_gained	KIAA0368
structural_interaction_variant	ZNF483
structural_interaction_variant	ZNF483
structural_interaction_variant	ZNF483
disruptive_inframe_deletion	ZNF483
structural_interaction_variant	ZNF483
structural_interaction_variant	PTGR1
structural_interaction_variant	DNAJC25
structural_interaction_variant	C9orf84
structural_interaction_variant	C9orf84
structural_interaction_variant	C9orf84
structural_interaction_variant	C9orf84
structural_interaction_variant	C9orf84
structural_interaction_variant	C9orf84
frameshift_variant	C9orf84
structural_interaction_variant	C9orf84
structural_interaction_variant	UGCG
structural_interaction_variant	PTBP3
frameshift_variant	HSDL2
structural_interaction_variant	HSDL2
structural_interaction_variant	HSDL2
structural_interaction_variant	KIAA1958
structural_interaction_variant	KIAA1958
structural_interaction_variant	INIP
structural_interaction_variant	INIP
structural_interaction_variant	SNX30
structural_interaction_variant	SNX30
structural_interaction_variant	SLC46A2
structural_interaction_variant	SLC46A2
structural_interaction_variant	SLC46A2
structural_interaction_variant	SLC46A2
structural_interaction_variant	FKBP15
structural_interaction_variant	FKBP15
structural_interaction_variant	FKBP15
splice_donor_variant&intron_variant	FKBP15
splice_acceptor_variant&intron_variant	FKBP15
structural_interaction_variant	FKBP15
structural_interaction_variant	FKBP15
missense_variant&splice_region_variant	FKBP15

frameshift_variant	SLC31A1
structural_interaction_variant	SLC31A1
stop_gained	PRPF4
structural_interaction_variant	RNF183
structural_interaction_variant	WDR31
structural_interaction_variant	WDR31
missense_variant&splice_region_variant	BSPRY
structural_interaction_variant	HDHD3
structural_interaction_variant	ALAD
structural_interaction_variant	ALAD
structural_interaction_variant	ALAD
stop_gained	ALAD
structural_interaction_variant	ALAD
structural_interaction_variant	C9orf43
frameshift_variant	C9orf43
structural_interaction_variant	RGS3
structural_interaction_variant	RGS3
structural_interaction_variant	RGS3
splice_donor_variant&intron_variant	RGS3
structural_interaction_variant	RGS3
structural_interaction_variant	RGS3
structural_interaction_variant	RGS3
structural_interaction_variant	RGS3
structural_interaction_variant	RGS3
structural_interaction_variant	RGS3
structural_interaction_variant	RGS3
structural_interaction_variant	ZNF618
structural_interaction_variant	ZNF618
structural_interaction_variant	ZNF618
structural_interaction_variant	ZNF618
structural_interaction_variant	ZNF618
structural_interaction_variant	ZNF618
structural_interaction_variant	AMBP
structural_interaction_variant	AMBP
structural_interaction_variant	AMBP
structural_interaction_variant	KIF12
structural_interaction_variant	KIF12
missense_variant&splice_region_variant	KIF12
frameshift_variant	COL27A1
structural_interaction_variant	AKNA
structural_interaction_variant	AKNA
missense_variant&splice_region_variant	AKNA
structural_interaction_variant	AKNA
structural_interaction_variant	AKNA
structural_interaction_variant	DFNB31
frameshift_variant	C9orf91
structural_interaction_variant	TNFSF15
structural_interaction_variant	TNC

structural_interaction_variant	TNC
structural_interaction_variant	TNC
structural_interaction_variant	TNC
structural_interaction_variant	TNC
structural_interaction_variant	TNC
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structural_interaction_variant	TNC
structural_interaction_variant	TNC
structural_interaction_variant	TNC
structural_interaction_variant	TNC
structural_interaction_variant	TNC
structural_interaction_variant	PAPPA
structural_interaction_variant	PAPPA
structural_interaction_variant	PAPPA
structural_interaction_variant	PAPPA
structural_interaction_variant	PAPPA
structural_interaction_variant	PAPPA
structural_interaction_variant	TRIM32
structural_interaction_variant	ASTN2
structural_interaction_variant	TLR4
structural_interaction_variant	TLR4
structural_interaction_variant	TLR4
structural_interaction_variant	TLR4
structural_interaction_variant	TLR4
structural_interaction_variant	BRINP1
structural_interaction_variant	BRINP1
structural_interaction_variant	BRINP1
stop_gained	CDK5RAP2
structural_interaction_variant	CDK5RAP2
structural_interaction_variant	MEGF9
structural_interaction_variant	FBXW2
structural_interaction_variant	FBXW2
structural_interaction_variant	PSMD5
stop_gained	PSMD5
structural_interaction_variant	PSMD5
structural_interaction_variant	CNTRL
structural_interaction_variant	RAB14
structural_interaction_variant	GSN
structural_interaction_variant	AL161784.1
structural_interaction_variant	DAB2IP
structural_interaction_variant	DAB2IP
structural_interaction_variant	DAB2IP
structural_interaction_variant	DAB2IP
structural_interaction_variant	DAB2IP
structural_interaction_variant	DAB2IP
structural_interaction_variant	NDUFA8

structural_interaction_variant	MORN5
splice_donor_variant&intron_variant	MORN5
structural_interaction_variant	MRRF
structural_interaction_variant	MRRF
structural_interaction_variant	MRRF
structural_interaction_variant	MRRF
structural_interaction_variant	PTGS1
structural_interaction_variant	PTGS1
structural_interaction_variant	OR1J1
structural_interaction_variant	OR1J1
structural_interaction_variant	OR1N1
structural_interaction_variant	OR1N1
structural_interaction_variant	OR1N2
structural_interaction_variant	OR1N2
disruptive_inframe_deletion	OR1N2
structural_interaction_variant	OR1N2
structural_interaction_variant	OR1N2
frameshift_variant	OR1Q1
structural_interaction_variant	OR1Q1
structural_interaction_variant	OR1Q1
structural_interaction_variant	OR1Q1
structural_interaction_variant	OR1Q1
structural_interaction_variant	OR1B1
structural_interaction_variant	OR1L1
structural_interaction_variant	OR1L3
structural_interaction_variant	OR1L3
structural_interaction_variant	OR1L4
structural_interaction_variant	OR1L6
structural_interaction_variant	OR1L6
frameshift_variant	OR1L6
structural_interaction_variant	OR5C1
structural_interaction_variant	OR1K1
structural_interaction_variant	OR1K1
structural_interaction_variant	OR1K1
structural_interaction_variant	PDCL
structural_interaction_variant	RC3H2
structural_interaction_variant	RC3H2
structural_interaction_variant	RC3H2
structural_interaction_variant	RC3H2
structural_interaction_variant	ZBTB6
missense_variant&splice_region_variant	RABGAP1
structural_interaction_variant	GPR21
structural_interaction_variant	GPR21
structural_interaction_variant	RABGAP1
structural_interaction_variant	STRBP
structural_interaction_variant	CRB2
structural_interaction_variant	LHX2
structural_interaction_variant	NEK6

structural_interaction_variant	PSMB7
structural_interaction_variant	NR6A1
structural_interaction_variant	OLFML2A
structural_interaction_variant	OLFML2A
structural_interaction_variant	OLFML2A
structural_interaction_variant	GOLGA1
structural_interaction_variant	GOLGA1
structural_interaction_variant	GOLGA1
structural_interaction_variant	SCAI
structural_interaction_variant	SCAI
structural_interaction_variant	SCAI
structural_interaction_variant	PPP6C
structural_interaction_variant	RABEPK
structural_interaction_variant	RABEPK
structural_interaction_variant	GAPVD1
structural_interaction_variant	GAPVD1
structural_interaction_variant	GAPVD1
structural_interaction_variant	GAPVD1
structural_interaction_variant	GAPVD1
structural_interaction_variant	GAPVD1
missense_variant&splice_region_variant	GAPVD1
structural_interaction_variant	MAPKAP1
structural_interaction_variant	MAPKAP1
structural_interaction_variant	MAPKAP1
structural_interaction_variant	MAPKAP1
structural_interaction_variant	PBX3
frameshift_variant	PBX3
structural_interaction_variant	ZBTB43
structural_interaction_variant	ZBTB34
structural_interaction_variant	RALGPS1
structural_interaction_variant	RALGPS1
structural_interaction_variant	GARNL3
structural_interaction_variant	GARNL3
splice_donor_variant&intron_variant	GARNL3
structural_interaction_variant	GARNL3
structural_interaction_variant	GARNL3
structural_interaction_variant	SLC2A8
structural_interaction_variant	SLC2A8
structural_interaction_variant	ZNF79
structural_interaction_variant	ZNF79
structural_interaction_variant	ZNF79
structural_interaction_variant	ZNF79
structural_interaction_variant	ZNF79
structural_interaction_variant	C9orf117
structural_interaction_variant	C9orf117
structural_interaction_variant	C9orf117
structural_interaction_variant	C9orf117
structural_interaction_variant	PTRH1

structural_interaction_variant	TTC16
structural_interaction_variant	TTC16
frameshift_variant	TTC16
structural_interaction_variant	TTC16
stop_gained	TTC16
structural_interaction_variant	TOR2A
structural_interaction_variant	SH2D3C
structural_interaction_variant	SH2D3C
structural_interaction_variant	CDK9
splice_acceptor_variant&intron_variant	CDK9
structural_interaction_variant	CDK9
structural_interaction_variant	CDK9
splice_donor_variant&splice_region_variant&intron_	FPGS
structural_interaction_variant	FPGS
structural_interaction_variant	ENG
structural_interaction_variant	ENG
missense_variant&splice_region_variant	AK1
structural_interaction_variant	AK1
structural_interaction_variant	AK1
structural_interaction_variant	ST6GALNAC6
structural_interaction_variant	ST6GALNAC6
structural_interaction_variant	DPM2
structural_interaction_variant	DPM2
structural_interaction_variant	FAM102A
structural_interaction_variant	SLC25A25
structural_interaction_variant	SLC25A25
structural_interaction_variant	SLC25A25
structural_interaction_variant	PTGES2
structural_interaction_variant	CIZ1
structural_interaction_variant	DNM1
structural_interaction_variant	DNM1
structural_interaction_variant	GOLGA2
structural_interaction_variant	TRUB2
structural_interaction_variant	TRUB2
structural_interaction_variant	TRUB2
structural_interaction_variant	TRUB2
structural_interaction_variant	SLC27A4
structural_interaction_variant	SLC27A4
structural_interaction_variant	SLC27A4
structural_interaction_variant	URM1
structural_interaction_variant	URM1
structural_interaction_variant	CERCAM
structural_interaction_variant	CERCAM
structural_interaction_variant	CERCAM
structural_interaction_variant	CERCAM
splice_acceptor_variant&intron_variant	ODF2
structural_interaction_variant	ODF2
structural_interaction_variant	ODF2

structural_interaction_variant	GLE1
structural_interaction_variant	GLE1
structural_interaction_variant	GLE1
missense_variant&splice_region_variant	SPTAN1
structural_interaction_variant	SPTAN1
structural_interaction_variant	SPTAN1
stop_gained	SPTAN1
structural_interaction_variant	WDR34
structural_interaction_variant	PKN3
structural_interaction_variant	PKN3
structural_interaction_variant	PKN3
structural_interaction_variant	C9orf114
structural_interaction_variant	CCBL1
structural_interaction_variant	CCBL1
structural_interaction_variant	CCBL1
structural_interaction_variant	CCBL1
structural_interaction_variant	CCBL1
structural_interaction_variant	LRRC8A
structural_interaction_variant	LRRC8A
structural_interaction_variant	LRRC8A
structural_interaction_variant	PHYHD1
structural_interaction_variant	PHYHD1
structural_interaction_variant	PHYHD1
frameshift_variant	PHYHD1
structural_interaction_variant	DOLK
structural_interaction_variant	NUP188
structural_interaction_variant	NUP188
structural_interaction_variant	NUP188
structural_interaction_variant	NUP188
structural_interaction_variant	NUP188
start_lost	FAM73B
structural_interaction_variant	FAM73B
structural_interaction_variant	FAM73B
structural_interaction_variant	CRAT
structural_interaction_variant	CRAT
structural_interaction_variant	CRAT
structural_interaction_variant	PPP2R4
structural_interaction_variant	C9orf50
structural_interaction_variant	C9orf50
stop_gained&splice_region_variant	C9orf50
structural_interaction_variant	NTMT1
structural_interaction_variant	NTMT1
structural_interaction_variant	ASB6
structural_interaction_variant	ASB6
structural_interaction_variant	PRRX2
structural_interaction_variant	PRRX2
structural_interaction_variant	TOR1B
structural_interaction_variant	TOR1B

structural_interaction_variant	TOR1B
frameshift_variant	TOR1A
structural_interaction_variant	TOR1A
frameshift_variant	TOR1A
structural_interaction_variant	C9orf78
structural_interaction_variant	C9orf78
splice_acceptor_variant&intron_variant	C9orf78
missense_variant&splice_region_variant	USP20
structural_interaction_variant	USP20
structural_interaction_variant	USP20
structural_interaction_variant	USP20
structural_interaction_variant	USP20
structural_interaction_variant	USP20
structural_interaction_variant	USP20
structural_interaction_variant	FNBP1
structural_interaction_variant	FNBP1
structural_interaction_variant	FNBP1
structural_interaction_variant	FNBP1
structural_interaction_variant	GPR107
missense_variant&splice_region_variant	HMCN2
structural_interaction_variant	HMCN2
structural_interaction_variant	HMCN2
structural_interaction_variant	ASS1
structural_interaction_variant	FUBP3
structural_interaction_variant	FUBP3
structural_interaction_variant	FUBP3
structural_interaction_variant	ABL1
structural_interaction_variant	ABL1
structural_interaction_variant	ABL1
disruptive_inframe_insertion	QRFP
structural_interaction_variant	QRFP
frameshift_variant	FIBCD1
structural_interaction_variant	FIBCD1
missense_variant&splice_region_variant	LAMC3
structural_interaction_variant	AIF1L
frameshift_variant	NUP214
structural_interaction_variant	NUP214
structural_interaction_variant	NUP214
structural_interaction_variant	NUP214
structural_interaction_variant	NUP214
structural_interaction_variant	NUP214
structural_interaction_variant	NUP214
structural_interaction_variant	NUP214
structural_interaction_variant	NUP214
structural_interaction_variant	FAM78A
structural_interaction_variant	FAM78A
structural_interaction_variant	PRRC2B
structural_interaction_variant	PRRC2B

structural_interaction_variant	PRRC2B
structural_interaction_variant	PRRC2B
structural_interaction_variant	PRRC2B
structural_interaction_variant	PRRC2B
structural_interaction_variant	PRRC2B
structural_interaction_variant	PRRC2B
structural_interaction_variant	PRRC2B
structural_interaction_variant	PRRC2B
frameshift_variant	POMT1
structural_interaction_variant	POMT1
structural_interaction_variant	UCK1
structural_interaction_variant	RAPGEF1
structural_interaction_variant	RAPGEF1
structural_interaction_variant	RAPGEF1
structural_interaction_variant	MED27
structural_interaction_variant	SETX
structural_interaction_variant	SETX
structural_interaction_variant	TTF1
structural_interaction_variant	TTF1
structural_interaction_variant	TTF1
structural_interaction_variant	TTF1
structural_interaction_variant	TTF1
structural_interaction_variant	TTF1
structural_interaction_variant	BARHL1
structural_interaction_variant	BARHL1
frameshift_variant	DDX31
structural_interaction_variant	DDX31
structural_interaction_variant	DDX31
structural_interaction_variant	DDX31
missense_variant&splice_region_variant	DDX31
structural_interaction_variant	GTF3C4
structural_interaction_variant	GTF3C4
structural_interaction_variant	GTF3C4
structural_interaction_variant	GTF3C4
structural_interaction_variant	GTF3C4
structural_interaction_variant	GTF3C4
structural_interaction_variant	AK8
structural_interaction_variant	C9orf9
structural_interaction_variant	GFI1B
structural_interaction_variant	GFI1B
structural_interaction_variant	GTF3C5
structural_interaction_variant	GTF3C5
structural_interaction_variant	GTF3C5
structural_interaction_variant	CEL
structural_interaction_variant	CEL
structural_interaction_variant	CEL
structural_interaction_variant	RALGDS
stop_gained	RALGDS

structural_interaction_variant	RALGDS
structural_interaction_variant	OBP2B
missense_variant&splice_region_variant	SURF6
stop_gained	MED22
structural_interaction_variant	SURF4
structural_interaction_variant	SURF4
structural_interaction_variant	C9orf96
structural_interaction_variant	C9orf96
structural_interaction_variant	C9orf96
structural_interaction_variant	REXO4
structural_interaction_variant	ADAMTS13
splice_donor_variant&splice_region_variant&intron_	ADAMTS13
structural_interaction_variant	TMEM8C
structural_interaction_variant	DBH
stop_gained&splice_region_variant	DBH
structural_interaction_variant	DBH
structural_interaction_variant	VAV2
structural_interaction_variant	VAV2
structural_interaction_variant	VAV2
structural_interaction_variant	BRD3
structural_interaction_variant	BRD3
structural_interaction_variant	RXRA
structural_interaction_variant	RXRA
stop_gained	COL5A1
structural_interaction_variant	FCN2
structural_interaction_variant	FCN2
structural_interaction_variant	FCN2
structural_interaction_variant	FCN2
structural_interaction_variant	FCN2
structural_interaction_variant	FCN1
splice_acceptor_variant&intron_variant	FCN1
splice_acceptor_variant&intron_variant	FCN1
structural_interaction_variant	OLFM1
structural_interaction_variant	OLFM1
structural_interaction_variant	C9orf62
structural_interaction_variant	C9orf62
structural_interaction_variant	C9orf62
structural_interaction_variant	PPP1R26
structural_interaction_variant	PPP1R26
structural_interaction_variant	PPP1R26
structural_interaction_variant	PPP1R26
structural_interaction_variant	MRPS2
structural_interaction_variant	MRPS2
structural_interaction_variant	MRPS2
frameshift_variant	MRPS2
splice_donor_variant&intron_variant	LCN1
structural_interaction_variant	SOHLH1
structural_interaction_variant	KCNT1

structural_interaction_variant	KCNT1
structural_interaction_variant	CAMSAP1
structural_interaction_variant	CAMSAP1
structural_interaction_variant	CAMSAP1
structural_interaction_variant	CAMSAP1
structural_interaction_variant	CAMSAP1
structural_interaction_variant	CAMSAP1
structural_interaction_variant	CAMSAP1
structural_interaction_variant	CAMSAP1
structural_interaction_variant	CAMSAP1
structural_interaction_variant	LHX3
structural_interaction_variant	LHX3
missense_variant&splice_region_variant	QSOX2
structural_interaction_variant	QSOX2
structural_interaction_variant	GPSM1
structural_interaction_variant	GPSM1
structural_interaction_variant	GPSM1
frameshift_variant	CARD9
frameshift_variant	SNAPC4
structural_interaction_variant	SNAPC4
splice_acceptor_variant&intron_variant	SDCCAG3
structural_interaction_variant	INPP5E
structural_interaction_variant	INPP5E
structural_interaction_variant	SEC16A
structural_interaction_variant	SEC16A
structural_interaction_variant	SEC16A
structural_interaction_variant	SEC16A
start_lost	SEC16A
structural_interaction_variant	C9orf163
structural_interaction_variant	C9orf163
structural_interaction_variant	C9orf163
structural_interaction_variant	C9orf163
structural_interaction_variant	EGFL7
structural_interaction_variant	LCN15
structural_interaction_variant	RP11-216L13.17
structural_interaction_variant	CCDC183
structural_interaction_variant	CCDC183
structural_interaction_variant	CCDC183
structural_interaction_variant	CCDC183
structural_interaction_variant	RABL6
structural_interaction_variant	RABL6
structural_interaction_variant	RABL6
structural_interaction_variant	RABL6
structural_interaction_variant	RABL6
structural_interaction_variant	RABL6
structural_interaction_variant	PHPT1
structural_interaction_variant	MAMDC4
structural_interaction_variant	MAMDC4

structural_interaction_variant	MAMDC4
disruptive_inframe_deletion	TRAF2
structural_interaction_variant	TRAF2
missense_variant&splice_region_variant	FBXW5
structural_interaction_variant	FBXW5
structural_interaction_variant	FBXW5
frameshift_variant	C8G
structural_interaction_variant	C8G
structural_interaction_variant	C8G
structural_interaction_variant	C8G
structural_interaction_variant	C9orf142
structural_interaction_variant	CLIC3
structural_interaction_variant	CLIC3
structural_interaction_variant	ENTPD2
stop_gained	ENTPD2
structural_interaction_variant	ENTPD2
frameshift_variant	ENTPD2
frameshift_variant	ENTPD2
structural_interaction_variant	UAP1L1
structural_interaction_variant	UAP1L1
structural_interaction_variant	UAP1L1
stop_gained	UAP1L1
structural_interaction_variant	UAP1L1
structural_interaction_variant	MAN1B1
structural_interaction_variant	MAN1B1
missense_variant&splice_region_variant	ANAPC2
structural_interaction_variant	SSNA1
structural_interaction_variant	SSNA1
structural_interaction_variant	TPRN
structural_interaction_variant	NDOR1
structural_interaction_variant	NDOR1
structural_interaction_variant	NDOR1
structural_interaction_variant	NDOR1
structural_interaction_variant	NDOR1
structural_interaction_variant	NDOR1
structural_interaction_variant	RNF208
stop_gained	FAM166A
structural_interaction_variant	C9orf173
structural_interaction_variant	NELFB
structural_interaction_variant	NOXA1
structural_interaction_variant	ENTPD8
structural_interaction_variant	ENTPD8
structural_interaction_variant	ENTPD8
missense_variant&splice_region_variant	NSMF
structural_interaction_variant	NSMF
structural_interaction_variant	NSMF
structural_interaction_variant	PNPLA7
structural_interaction_variant	PNPLA7

structural_interaction_variant	PNPLA7
structural_interaction_variant	PNPLA7
splice_acceptor_variant&intron_variant	PNPLA7
structural_interaction_variant	PNPLA7
stop_gained	PNPLA7
structural_interaction_variant	PNPLA7
structural_interaction_variant	PNPLA7
structural_interaction_variant	PNPLA7
structural_interaction_variant	MRPL41
structural_interaction_variant	MRPL41
splice_acceptor_variant&intron_variant	ARRDC1
stop_gained	ARRDC1
frameshift_variant	ARRDC1
structural_interaction_variant	ARRDC1
structural_interaction_variant	CACNA1B
structural_interaction_variant	CACNA1B
structural_interaction_variant	CACNA1B
structural_interaction_variant	CACNA1B
structural_interaction_variant	CACNA1B
structural_interaction_variant	CACNA1B
structural_interaction_variant	ZMYND11
structural_interaction_variant	DIP2C
structural_interaction_variant	DIP2C
structural_interaction_variant	DIP2C
structural_interaction_variant	DIP2C
structural_interaction_variant	DIP2C
structural_interaction_variant	DIP2C
structural_interaction_variant	LARP4B
structural_interaction_variant	LARP4B
structural_interaction_variant	GTPBP4
structural_interaction_variant	GTPBP4
structural_interaction_variant	GTPBP4
structural_interaction_variant	GTPBP4
structural_interaction_variant	GTPBP4
structural_interaction_variant	GTPBP4
structural_interaction_variant	GTPBP4
structural_interaction_variant	GTPBP4
structural_interaction_variant	IDI2
structural_interaction_variant	IDI1
structural_interaction_variant	ADARB2
structural_interaction_variant	ADARB2
structural_interaction_variant	ADARB2
structural_interaction_variant	ADARB2
structural_interaction_variant	ADARB2
structural_interaction_variant	ADARB2
structural_interaction_variant	PFKP
structural_interaction_variant	PFKP
structural_interaction_variant	PFKP

structural_interaction_variant	PITRM1
structural_interaction_variant	PITRM1
structural_interaction_variant	PITRM1
structural_interaction_variant	PITRM1
structural_interaction_variant	PITRM1
structural_interaction_variant	PITRM1
structural_interaction_variant	KLF6
structural_interaction_variant	KLF6
structural_interaction_variant	KLF6
structural_interaction_variant	AKR1E2
structural_interaction_variant	AKR1E2
structural_interaction_variant	AKR1E2
structural_interaction_variant	AKR1C4
stop_gained	UCN3
structural_interaction_variant	TUBAL3
structural_interaction_variant	NET1
structural_interaction_variant	NET1
structural_interaction_variant	NET1
structural_interaction_variant	NET1
structural_interaction_variant	CALML5
structural_interaction_variant	CALML5
structural_interaction_variant	CALML3
structural_interaction_variant	CALML3
structural_interaction_variant	CALML3
structural_interaction_variant	CALML3
structural_interaction_variant	ASB13
structural_interaction_variant	FAM208B
structural_interaction_variant	FAM208B
structural_interaction_variant	FAM208B
structural_interaction_variant	FAM208B
structural_interaction_variant	FAM208B
structural_interaction_variant	FAM208B
structural_interaction_variant	FAM208B
structural_interaction_variant	FAM208B
structural_interaction_variant	FAM208B
structural_interaction_variant	FAM208B
structural_interaction_variant	FAM208B
splice_donor_variant&intron_variant	FAM208B
structural_interaction_variant	FBXO18
structural_interaction_variant	FBXO18
structural_interaction_variant	FBXO18
structural_interaction_variant	FBXO18
stop_gained	IL15RA
structural_interaction_variant	PFKFB3
structural_interaction_variant	PFKFB3
frameshift_variant	PFKFB3
structural_interaction_variant	PRKCQ
structural_interaction_variant	SFMBT2
structural_interaction_variant	SFMBT2

structural_interaction_variant	SFMBT2
structural_interaction_variant	ITIH5
structural_interaction_variant	ITIH5
stop_gained	ITIH5
structural_interaction_variant	ITIH5
structural_interaction_variant	ITIH5
structural_interaction_variant	ITIH5
structural_interaction_variant	ITIH5
structural_interaction_variant	ITIH2
structural_interaction_variant	ITIH2
stop_gained	ITIH2
structural_interaction_variant	ITIH2
structural_interaction_variant	ITIH2
structural_interaction_variant	ITIH2
structural_interaction_variant	ITIH2
structural_interaction_variant	ITIH2
structural_interaction_variant	KIN
structural_interaction_variant	KIN
structural_interaction_variant	TAF3
structural_interaction_variant	TAF3
structural_interaction_variant	TAF3
structural_interaction_variant	TAF3
structural_interaction_variant	TAF3
structural_interaction_variant	CELF2
structural_interaction_variant	CELF2
structural_interaction_variant	CELF2
structural_interaction_variant	USP6NL
structural_interaction_variant	USP6NL
structural_interaction_variant	USP6NL
structural_interaction_variant	USP6NL
structural_interaction_variant	USP6NL
structural_interaction_variant	USP6NL
structural_interaction_variant	USP6NL
structural_interaction_variant	USP6NL
structural_interaction_variant	PROSER2
structural_interaction_variant	UPF2
structural_interaction_variant	UPF2
structural_interaction_variant	UPF2
structural_interaction_variant	UPF2
stop_gained	DHTKD1
structural_interaction_variant	DHTKD1
structural_interaction_variant	DHTKD1
structural_interaction_variant	SEC61A2
structural_interaction_variant	CDC123
structural_interaction_variant	CAMK1D
structural_interaction_variant	CAMK1D
structural_interaction_variant	CCDC3
structural_interaction_variant	OPTN

stop_gained	OPTN
frameshift_variant	OPTN
structural_interaction_variant	MCM10
structural_interaction_variant	MCM10
structural_interaction_variant	MCM10
missense_variant&splice_region_variant	MCM10
structural_interaction_variant	MCM10
structural_interaction_variant	MCM10
structural_interaction_variant	MCM10
structural_interaction_variant	MCM10
structural_interaction_variant	UCMA
structural_interaction_variant	UCMA
structural_interaction_variant	UCMA
structural_interaction_variant	SEPHS1
structural_interaction_variant	SEPHS1
structural_interaction_variant	BEND7
structural_interaction_variant	BEND7
structural_interaction_variant	PRPF18
structural_interaction_variant	FRMD4A
structural_interaction_variant	FRMD4A
structural_interaction_variant	FRMD4A
structural_interaction_variant	FRMD4A
missense_variant&splice_region_variant	CDNF
structural_interaction_variant	HSPA14
structural_interaction_variant	HSPA14
structural_interaction_variant	HSPA14
structural_interaction_variant	DCLRE1C
structural_interaction_variant	OLAH
structural_interaction_variant	OLAH
structural_interaction_variant	OLAH
structural_interaction_variant	OLAH
structural_interaction_variant	ACBD7
structural_interaction_variant	C10orf111
frameshift_variant	RPP38
structural_interaction_variant	RPP38
structural_interaction_variant	NMT2
structural_interaction_variant	NMT2
structural_interaction_variant	NMT2
structural_interaction_variant	FAM171A1
structural_interaction_variant	FAM171A1
structural_interaction_variant	FAM171A1
structural_interaction_variant	ITGA8
structural_interaction_variant	ITGA8
structural_interaction_variant	ITGA8
structural_interaction_variant	ITGA8
structural_interaction_variant	FAM188A
structural_interaction_variant	FAM188A
structural_interaction_variant	PTER

frameshift_variant	PTER
structural_interaction_variant	PTER
structural_interaction_variant	PTER
structural_interaction_variant	PTER
structural_interaction_variant	RSU1
structural_interaction_variant	RSU1
structural_interaction_variant	RSU1
structural_interaction_variant	CUBN
structural_interaction_variant	CUBN
structural_interaction_variant	CUBN
structural_interaction_variant	CUBN
structural_interaction_variant	CUBN
structural_interaction_variant	CUBN
frameshift_variant	CUBN
structural_interaction_variant	CUBN
structural_interaction_variant	CUBN
stop_gained	TRDMT1
structural_interaction_variant	VIM
structural_interaction_variant	VIM
missense_variant&splice_region_variant	ST8SIA6
structural_interaction_variant	ST8SIA6
structural_interaction_variant	ST8SIA6
structural_interaction_variant	ST8SIA6
structural_interaction_variant	PTPLA
structural_interaction_variant	PTPLA
structural_interaction_variant	STAM
structural_interaction_variant	STAM
stop_gained	STAM
structural_interaction_variant	SLC39A12
structural_interaction_variant	CACNB2
structural_interaction_variant	CACNB2
structural_interaction_variant	CACNB2
stop_gained	CACNB2
stop_gained	CACNB2
structural_interaction_variant	CACNB2
structural_interaction_variant	NSUN6
structural_interaction_variant	NSUN6
structural_interaction_variant	NSUN6
structural_interaction_variant	MALRD1
structural_interaction_variant	MALRD1
missense_variant&splice_region_variant	MALRD1
structural_interaction_variant	MALRD1
structural_interaction_variant	MALRD1
structural_interaction_variant	MALRD1
structural_interaction_variant	MALRD1
missense_variant&splice_region_variant	PLXDC2
structural_interaction_variant	PLXDC2
disruptive_inframe_deletion	PLXDC2

structural_interaction_variant	PLXDC2
structural_interaction_variant	PLXDC2
structural_interaction_variant	PLXDC2
structural_interaction_variant	NEBL
splice_donor_variant&intron_variant	NEBL
structural_interaction_variant	NEBL
structural_interaction_variant	NEBL
structural_interaction_variant	NEBL
missense_variant&splice_region_variant	NEBL
structural_interaction_variant	C10orf113
structural_interaction_variant	SKIDA1
structural_interaction_variant	SKIDA1
structural_interaction_variant	SKIDA1
structural_interaction_variant	SKIDA1
structural_interaction_variant	MLLT10
structural_interaction_variant	MLLT10
structural_interaction_variant	MLLT10
structural_interaction_variant	MLLT10
missense_variant&splice_region_variant	DNAJC1
splice_acceptor_variant&intron_variant	DNAJC1
stop_gained	EBLN1
structural_interaction_variant	BMI1
structural_interaction_variant	BMI1
stop_gained	BMI1
structural_interaction_variant	BMI1
structural_interaction_variant	SPAG6
structural_interaction_variant	SPAG6
structural_interaction_variant	SPAG6
structural_interaction_variant	PIP4K2A
structural_interaction_variant	PIP4K2A
structural_interaction_variant	PIP4K2A
structural_interaction_variant	PIP4K2A
structural_interaction_variant	ARMC3
structural_interaction_variant	ARMC3
structural_interaction_variant	ARMC3
splice_donor_variant&intron_variant	C10orf67
structural_interaction_variant	C10orf67
structural_interaction_variant	OTUD1
structural_interaction_variant	KIAA1217
structural_interaction_variant	KIAA1217
structural_interaction_variant	KIAA1217
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structural_interaction_variant	KIAA1217
structural_interaction_variant	KIAA1217
structural_interaction_variant	KIAA1217
structural_interaction_variant	KIAA1217
structural_interaction_variant	KIAA1217
missense_variant&splice_region_variant	KIAA1217

structural_interaction_variant	KIAA1217
stop_gained	KIAA1217
structural_interaction_variant	ARHGAP21
structural_interaction_variant	ARHGAP21
structural_interaction_variant	ARHGAP21
structural_interaction_variant	ARHGAP21
structural_interaction_variant	ARHGAP21
structural_interaction_variant	PRTFDC1
structural_interaction_variant	PRTFDC1
structural_interaction_variant	ENKUR
structural_interaction_variant	THNSL1
frameshift_variant	THNSL1
structural_interaction_variant	THNSL1
structural_interaction_variant	THNSL1
structural_interaction_variant	THNSL1
structural_interaction_variant	THNSL1
structural_interaction_variant	GPR158
structural_interaction_variant	GPR158
structural_interaction_variant	GPR158
structural_interaction_variant	GPR158
structural_interaction_variant	GPR158
structural_interaction_variant	GPR158
structural_interaction_variant	GPR158
structural_interaction_variant	MYO3A
frameshift_variant	MYO3A
frameshift_variant	MYO3A
stop_gained	MYO3A
structural_interaction_variant	MYO3A
missense_variant&splice_region_variant	MYO3A
frameshift_variant	MYO3A
structural_interaction_variant	MYO3A
structural_interaction_variant	GAD2
structural_interaction_variant	GAD2
stop_gained	GAD2
structural_interaction_variant	GAD2
missense_variant&splice_region_variant	GAD2
structural_interaction_variant	APBB1IP
structural_interaction_variant	ABI1
structural_interaction_variant	ABI1
structural_interaction_variant	ABI1
missense_variant&splice_region_variant	ANKRD26
stop_gained	ANKRD26
structural_interaction_variant	ANKRD26
structural_interaction_variant	ANKRD26
structural_interaction_variant	YME1L1
stop_gained	YME1L1
structural_interaction_variant	YME1L1
structural_interaction_variant	YME1L1

structural_interaction_variant	YME1L1
structural_interaction_variant	MASTL
structural_interaction_variant	PTCHD3
structural_interaction_variant	PTCHD3
structural_interaction_variant	PTCHD3
structural_interaction_variant	PTCHD3
structural_interaction_variant	PTCHD3
missense_variant&splice_region_variant	RAB18
structural_interaction_variant	RAB18
structural_interaction_variant	MKX
stop_gained	ARMC4
structural_interaction_variant	MPP7
structural_interaction_variant	MPP7
missense_variant&splice_region_variant	MPP7
missense_variant&splice_region_variant	MPP7
structural_interaction_variant	BAMBI
structural_interaction_variant	SVIL
structural_interaction_variant	SVIL
structural_interaction_variant	SVIL
structural_interaction_variant	SVIL
structural_interaction_variant	SVIL
stop_gained	KIAA1462
structural_interaction_variant	KIAA1462
structural_interaction_variant	KIAA1462
structural_interaction_variant	KIAA1462
structural_interaction_variant	KIAA1462
stop_gained	KIAA1462
structural_interaction_variant	KIAA1462
structural_interaction_variant	MTPAP
structural_interaction_variant	MTPAP
structural_interaction_variant	LYZL2
structural_interaction_variant	ZNF438
structural_interaction_variant	ZNF438
structural_interaction_variant	ZNF438
structural_interaction_variant	ZNF438
structural_interaction_variant	ZNF438
structural_interaction_variant	ZNF438
structural_interaction_variant	ZNF438
structural_interaction_variant	ARHGAP12
splice_donor_variant&intron_variant	ARHGAP12
structural_interaction_variant	KIF5B
structural_interaction_variant	EPC1
structural_interaction_variant	EPC1
structural_interaction_variant	EPC1
missense_variant&splice_region_variant	CCDC7
stop_gained	CCDC7
stop_gained	CCDC7
structural_interaction_variant	C10ORF68

structural_interaction_variant	C10ORF68
structural_interaction_variant	ITGB1
structural_interaction_variant	NRP1
structural_interaction_variant	NRP1
structural_interaction_variant	NRP1
structural_interaction_variant	NRP1
frameshift_variant	PARD3
structural_interaction_variant	PARD3
structural_interaction_variant	PARD3
structural_interaction_variant	PARD3
structural_interaction_variant	PARD3
splice_acceptor_variant&intron_variant	PARD3
stop_gained	CUL2
frameshift_variant	CREM
structural_interaction_variant	CCNY
structural_interaction_variant	CCNY
structural_interaction_variant	GJD4
structural_interaction_variant	GJD4
structural_interaction_variant	GJD4
structural_interaction_variant	GJD4
structural_interaction_variant	GJD4
structural_interaction_variant	FZD8
structural_interaction_variant	FZD8
structural_interaction_variant	FZD8
structural_interaction_variant	NAMPTL
stop_gained	NAMPTL
structural_interaction_variant	NAMPTL
structural_interaction_variant	ANKRD30A
stop_gained	ANKRD30A
structural_interaction_variant	ZNF248
structural_interaction_variant	ZNF248
structural_interaction_variant	ZNF248
structural_interaction_variant	ZNF248
structural_interaction_variant	ZNF25
structural_interaction_variant	ZNF33A
structural_interaction_variant	ZNF33A
structural_interaction_variant	ZNF33A
structural_interaction_variant	ZNF37A
structural_interaction_variant	ZNF37A
splice_donor_variant&intron_variant	HSD17B7P2
structural_interaction_variant	BMS1
structural_interaction_variant	RET
structural_interaction_variant	RET
structural_interaction_variant	RET
structural_interaction_variant	RET
structural_interaction_variant	CSGALNACT2
structural_interaction_variant	RASGEF1A
structural_interaction_variant	RASGEF1A

structural_interaction_variant	RASGEF1A
structural_interaction_variant	RASGEF1A
structural_interaction_variant	FXYD4
structural_interaction_variant	ZNF485
missense_variant&splice_region_variant	CXCL12
structural_interaction_variant	TMEM72
structural_interaction_variant	TMEM72
structural_interaction_variant	ZNF22
structural_interaction_variant	OR13A1
structural_interaction_variant	MARCH8
structural_interaction_variant	MARCH8
structural_interaction_variant	MARCH8
structural_interaction_variant	MARCH8
structural_interaction_variant	ZFAND4
structural_interaction_variant	ZFAND4
frameshift_variant	ZFAND4
stop_gained	ZFAND4
conservative_inframe_insertion	SYT15
splice_donor_variant&intron_variant	SYT15
structural_interaction_variant	SYT15
splice_donor_variant&intron_variant	SYT15
frameshift_variant	GPRIN2
structural_interaction_variant	GPRIN2
structural_interaction_variant	GPRIN2
structural_interaction_variant	GPRIN2
structural_interaction_variant	GPRIN2
stop_gained	GPRIN2
structural_interaction_variant	GPRIN2
structural_interaction_variant	GPRIN2
structural_interaction_variant	GPRIN2
structural_interaction_variant	NPY4R
structural_interaction_variant	NPY4R
structural_interaction_variant	NPY4R
stop_gained	NPY4R
structural_interaction_variant	NPY4R
structural_interaction_variant	NPY4R
structural_interaction_variant	ZNF488
structural_interaction_variant	ZNF488
structural_interaction_variant	ZNF488
structural_interaction_variant	RBP3
frameshift_variant	RBP3
structural_interaction_variant	RBP3
structural_interaction_variant	GDF10
splice_acceptor_variant&intron_variant	GDF10
missense_variant&splice_region_variant	FRMPD2
structural_interaction_variant	FRMPD2
splice_acceptor_variant&intron_variant	FRMPD2
structural_interaction_variant	FRMPD2

conservative_inframe_deletion	FRMPD2
frameshift_variant	ARHGAP22
structural_interaction_variant	ARHGAP22
structural_interaction_variant	WDFY4
missense_variant&splice_region_variant	WDFY4
structural_interaction_variant	WDFY4
structural_interaction_variant	WDFY4
structural_interaction_variant	WDFY4
structural_interaction_variant	WDFY4
structural_interaction_variant	WDFY4
frameshift_variant	WDFY4
structural_interaction_variant	WDFY4
structural_interaction_variant	LRRC18
structural_interaction_variant	LRRC18
structural_interaction_variant	LRRC18
structural_interaction_variant	WDFY4
structural_interaction_variant	WDFY4
structural_interaction_variant	VSTM4
stop_gained	VSTM4
structural_interaction_variant	C10orf128
structural_interaction_variant	C10orf128
structural_interaction_variant	C10orf71
structural_interaction_variant	C10orf71
structural_interaction_variant	C10orf71
structural_interaction_variant	C10orf71
structural_interaction_variant	C10orf71
structural_interaction_variant	C10orf71
structural_interaction_variant	C10orf71
structural_interaction_variant	DRGX
structural_interaction_variant	ERCC6
structural_interaction_variant	ERCC6
structural_interaction_variant	PGBD3
structural_interaction_variant	PGBD3
structural_interaction_variant	PGBD3
structural_interaction_variant	PGBD3
structural_interaction_variant	PGBD3
stop_gained	PGBD3
structural_interaction_variant	PGBD3
structural_interaction_variant	OGDHL
structural_interaction_variant	OGDHL
structural_interaction_variant	OGDHL
structural_interaction_variant	OGDHL
structural_interaction_variant	NCOA4
structural_interaction_variant	SGMS1
structural_interaction_variant	A1CF
structural_interaction_variant	A1CF
structural_interaction_variant	A1CF
structural_interaction_variant	A1CF

structural_interaction_variant	A1CF
structural_interaction_variant	A1CF
structural_interaction_variant	A1CF
structural_interaction_variant	A1CF
structural_interaction_variant	PRKG1
structural_interaction_variant	DKK1
structural_interaction_variant	DKK1
structural_interaction_variant	MBL2
frameshift_variant	PCDH15
structural_interaction_variant	ZWINT
structural_interaction_variant	ZWINT
structural_interaction_variant	ZWINT
structural_interaction_variant	ZWINT
structural_interaction_variant	IPMK
structural_interaction_variant	BICC1
structural_interaction_variant	BICC1
structural_interaction_variant	BICC1
structural_interaction_variant	PHYHIPL
structural_interaction_variant	PHYHIPL
structural_interaction_variant	PHYHIPL
structural_interaction_variant	FAM13C
structural_interaction_variant	SLC16A9
structural_interaction_variant	ANK3
structural_interaction_variant	ANK3
structural_interaction_variant	CDK1
structural_interaction_variant	RHOBTB1
structural_interaction_variant	RHOBTB1
structural_interaction_variant	RHOBTB1
splice_donor_variant&intron_variant	TMEM26
structural_interaction_variant	C10orf107
structural_interaction_variant	ARID5B
structural_interaction_variant	ARID5B
structural_interaction_variant	ARID5B
structural_interaction_variant	ARID5B
structural_interaction_variant	ARID5B
structural_interaction_variant	RTKN2
structural_interaction_variant	RTKN2
structural_interaction_variant	RTKN2
structural_interaction_variant	RTKN2
structural_interaction_variant	ZNF365
structural_interaction_variant	EGR2
structural_interaction_variant	EGR2
structural_interaction_variant	EGR2
structural_interaction_variant	JMJD1C
structural_interaction_variant	JMJD1C
structural_interaction_variant	JMJD1C
structural_interaction_variant	JMJD1C
structural_interaction_variant	JMJD1C

structural_interaction_variant	JMJD1C
structural_interaction_variant	JMJD1C
structural_interaction_variant	JMJD1C
structural_interaction_variant	REEP3
structural_interaction_variant	REEP3
frameshift_variant	CTNNA3
splice_donor_variant&intron_variant	CTNNA3
structural_interaction_variant	CTNNA3
structural_interaction_variant	CTNNA3
structural_interaction_variant	CTNNA3
structural_interaction_variant	CTNNA3
frameshift_variant	CTNNA3
structural_interaction_variant	CTNNA3
structural_interaction_variant	SIRT1
structural_interaction_variant	SIRT1
structural_interaction_variant	SIRT1
structural_interaction_variant	MYPN
structural_interaction_variant	MYPN
missense_variant&splice_region_variant	MYPN
structural_interaction_variant	ATOH7
structural_interaction_variant	PBLD
structural_interaction_variant	HNRNPH3
structural_interaction_variant	RUFY2
missense_variant&splice_region_variant	RUFY2
structural_interaction_variant	RUFY2
frameshift_variant&splice_region_variant	DNA2
structural_interaction_variant	DNA2
structural_interaction_variant	TET1
structural_interaction_variant	TET1
structural_interaction_variant	TET1
structural_interaction_variant	TET1
structural_interaction_variant	TET1
structural_interaction_variant	TET1
structural_interaction_variant	TET1
structural_interaction_variant	CCAR1
structural_interaction_variant	CCAR1
structural_interaction_variant	CCAR1
missense_variant&splice_region_variant	CCAR1
structural_interaction_variant	STOX1
structural_interaction_variant	STOX1
structural_interaction_variant	STOX1
structural_interaction_variant	STOX1
structural_interaction_variant	STOX1
structural_interaction_variant	STOX1
structural_interaction_variant	STOX1
structural_interaction_variant	DDX21
missense_variant&splice_region_variant	DDX21
structural_interaction_variant	DDX21

structural_interaction_variant	DDX21
structural_interaction_variant	DDX21
structural_interaction_variant	DDX21
structural_interaction_variant	DDX21
structural_interaction_variant	KIAA1279
structural_interaction_variant	KIAA1279
structural_interaction_variant	SRGN
structural_interaction_variant	SUPV3L1
structural_interaction_variant	SUPV3L1
structural_interaction_variant	HKDC1
structural_interaction_variant	HKDC1
structural_interaction_variant	HKDC1
structural_interaction_variant	HKDC1
stop_gained	HKDC1
structural_interaction_variant	HKDC1
structural_interaction_variant	HKDC1
structural_interaction_variant	HKDC1
structural_interaction_variant	HK1
structural_interaction_variant	HK1
structural_interaction_variant	HK1
structural_interaction_variant	HK1
structural_interaction_variant	TACR2
structural_interaction_variant	TACR2
structural_interaction_variant	TACR2
structural_interaction_variant	TACR2
structural_interaction_variant	TACR2
structural_interaction_variant	TACR2
structural_interaction_variant	TSPAN15
structural_interaction_variant	C10orf35
structural_interaction_variant	H2AFY2
structural_interaction_variant	H2AFY2
structural_interaction_variant	H2AFY2
splice_acceptor_variant&intron_variant	AIFM2
structural_interaction_variant	AIFM2
structural_interaction_variant	AIFM2
structural_interaction_variant	AIFM2
structural_interaction_variant	TYSND1
structural_interaction_variant	TYSND1
structural_interaction_variant	PPA1
structural_interaction_variant	NPFFR1
structural_interaction_variant	NPFFR1
stop_gained	NPFFR1
structural_interaction_variant	PALD1
structural_interaction_variant	PRF1
structural_interaction_variant	PRF1
structural_interaction_variant	PRF1
structural_interaction_variant	PRF1
stop_gained&splice_region_variant	ADAMTS14

structural_interaction_variant	ADAMTS14
structural_interaction_variant	TBATA
structural_interaction_variant	UNC5B
structural_interaction_variant	UNC5B
structural_interaction_variant	UNC5B
structural_interaction_variant	UNC5B
missense_variant&splice_region_variant	CDH23
structural_interaction_variant	CDH23
structural_interaction_variant	CDH23
structural_interaction_variant	CDH23
structural_interaction_variant	CDH23
structural_interaction_variant	SPOCK2
structural_interaction_variant	SPOCK2
structural_interaction_variant	DDIT4
structural_interaction_variant	DDIT4
structural_interaction_variant	DNAJB12
structural_interaction_variant	DNAJB12
structural_interaction_variant	DNAJB12
structural_interaction_variant	MICU1
stop_gained&splice_region_variant	MCU
structural_interaction_variant	OIT3
structural_interaction_variant	OIT3
stop_gained	OIT3
structural_interaction_variant	OIT3
stop_gained	OIT3
structural_interaction_variant	PLA2G12B
missense_variant&splice_region_variant	NUDT13
structural_interaction_variant	NUDT13
structural_interaction_variant	ECD
splice_donor_variant&intron_variant	ECD
structural_interaction_variant	ECD
structural_interaction_variant	FAM149B1
structural_interaction_variant	FAM149B1
structural_interaction_variant	FAM149B1
structural_interaction_variant	FAM149B1
stop_gained	FAM149B1
frameshift_variant	FAM149B1
structural_interaction_variant	FAM149B1
structural_interaction_variant	FAM149B1
missense_variant&splice_region_variant	MRPS16
structural_interaction_variant	TTC18
structural_interaction_variant	TTC18
structural_interaction_variant	TTC18
structural_interaction_variant	TTC18
structural_interaction_variant	ANXA7
frameshift_variant	ANXA7
structural_interaction_variant	ANXA7
structural_interaction_variant	ANXA7

frameshift_variant	MSS51
structural_interaction_variant	MSS51
stop_gained	PPP3CB
frameshift_variant	USP54
structural_interaction_variant	USP54
structural_interaction_variant	USP54
missense_variant&splice_region_variant	USP54
stop_gained	USP54
structural_interaction_variant	USP54
structural_interaction_variant	MYOZ1
structural_interaction_variant	SYNPO2L
structural_interaction_variant	SYNPO2L
structural_interaction_variant	SYNPO2L
frameshift_variant	SYNPO2L
structural_interaction_variant	SYNPO2L
structural_interaction_variant	SYNPO2L
missense_variant&splice_region_variant	SYNPO2L
structural_interaction_variant	SYNPO2L
structural_interaction_variant	SYNPO2L
structural_interaction_variant	SYNPO2L
structural_interaction_variant	SEC24C
stop_gained	FUT11
stop_gained	CHCHD1
structural_interaction_variant	NDST2
structural_interaction_variant	NDST2
structural_interaction_variant	NDST2
structural_interaction_variant	NDST2
structural_interaction_variant	CAMK2G
structural_interaction_variant	CAMK2G
structural_interaction_variant	CAMK2G
structural_interaction_variant	VCL
structural_interaction_variant	VCL
structural_interaction_variant	VCL
structural_interaction_variant	AP3M1
structural_interaction_variant	AP3M1
structural_interaction_variant	KAT6B
structural_interaction_variant	DUPD1
structural_interaction_variant	DUPD1
stop_gained	DUPD1
structural_interaction_variant	DUSP13
splice_donor_variant&intron_variant	DUSP13
structural_interaction_variant	SAMD8
structural_interaction_variant	COMTD1
structural_interaction_variant	ZNF503
structural_interaction_variant	KCNMA1
missense_variant&splice_region_variant	DLG5
structural_interaction_variant	DLG5
structural_interaction_variant	DLG5

structural_interaction_variant	DLG5
structural_interaction_variant	DLG5
structural_interaction_variant	DLG5
stop_gained	POLR3A
structural_interaction_variant	POLR3A
stop_gained	POLR3A
structural_interaction_variant	RPS24
structural_interaction_variant	ZMIZ1
structural_interaction_variant	PPIF
structural_interaction_variant	PPIF
structural_interaction_variant	PPIF
structural_interaction_variant	SFTPA1
stop_gained	TMEM254
structural_interaction_variant	TMEM254
structural_interaction_variant	TMEM254
structural_interaction_variant	PLAC9
structural_interaction_variant	ANXA11
structural_interaction_variant	SH2D4B
structural_interaction_variant	NRG3
structural_interaction_variant	NRG3
structural_interaction_variant	NRG3
structural_interaction_variant	GHITM
structural_interaction_variant	GHITM
structural_interaction_variant	GHITM
structural_interaction_variant	C10orf99
structural_interaction_variant	LRIT2
structural_interaction_variant	LRIT2
structural_interaction_variant	LRIT2
structural_interaction_variant	LRIT2
structural_interaction_variant	LRIT2
structural_interaction_variant	RGR
structural_interaction_variant	CCSER2
structural_interaction_variant	CCSER2
structural_interaction_variant	CCSER2
structural_interaction_variant	GRID1
structural_interaction_variant	GRID1
structural_interaction_variant	GRID1
structural_interaction_variant	GRID1
structural_interaction_variant	GRID1
structural_interaction_variant	GRID1
structural_interaction_variant	GRID1
structural_interaction_variant	WAPAL
structural_interaction_variant	WAPAL
structural_interaction_variant	WAPAL
structural_interaction_variant	WAPAL
structural_interaction_variant	OPN4
structural_interaction_variant	LDB3
missense_variant&splice_region_variant	LDB3

structural_interaction_variant	LDB3
structural_interaction_variant	LDB3
structural_interaction_variant	LDB3
structural_interaction_variant	MMRN2
structural_interaction_variant	MMRN2
structural_interaction_variant	SNCG
structural_interaction_variant	ADIRF
structural_interaction_variant	PAPSS2
structural_interaction_variant	RNLS
structural_interaction_variant	RNLS
structural_interaction_variant	LIPJ
structural_interaction_variant	LIPJ
structural_interaction_variant	LIPJ
structural_interaction_variant	LIPF
structural_interaction_variant	LIPF
frameshift_variant	LIPF
structural_interaction_variant	LIPF
structural_interaction_variant	LIPK
stop_gained	LIPK
structural_interaction_variant	LIPK
structural_interaction_variant	LIPN
structural_interaction_variant	LIPN
splice_donor_variant&intron_variant	LIPN
structural_interaction_variant	LIPN
frameshift_variant	LIPM
structural_interaction_variant	LIPM
structural_interaction_variant	LIPM
structural_interaction_variant	LIPM
structural_interaction_variant	ANKRD22
frameshift_variant&stop_gained	STAMBPL1
stop_gained	STAMBPL1
structural_interaction_variant	IFIT2
structural_interaction_variant	IFIT2
structural_interaction_variant	IFIT3
structural_interaction_variant	IFIT3
structural_interaction_variant	IFIT3
structural_interaction_variant	IFIT3
structural_interaction_variant	IFIT3
structural_interaction_variant	IFIT1B
structural_interaction_variant	IFIT1
frameshift_variant	IFIT1
structural_interaction_variant	IFIT1
structural_interaction_variant	IFIT5
structural_interaction_variant	IFIT5
structural_interaction_variant	IFIT5
structural_interaction_variant	IFIT5
structural_interaction_variant	SLC16A12
structural_interaction_variant	SLC16A12

stop_gained	SLC16A12
structural_interaction_variant	KIF20B
structural_interaction_variant	KIF20B
structural_interaction_variant	KIF20B
frameshift_variant	KIF20B
structural_interaction_variant	KIF20B
frameshift_variant	KIF20B
structural_interaction_variant	KIF20B
structural_interaction_variant	KIF20B
structural_interaction_variant	KIF20B
structural_interaction_variant	KIF20B
stop_gained	KIF20B
structural_interaction_variant	ANKRD1
structural_interaction_variant	ANKRD1
structural_interaction_variant	PCGF5
structural_interaction_variant	HECTD2
missense_variant&splice_region_variant	HECTD2
structural_interaction_variant	PPP1R3C
structural_interaction_variant	PPP1R3C
structural_interaction_variant	PPP1R3C
structural_interaction_variant	PPP1R3C
structural_interaction_variant	PPP1R3C
structural_interaction_variant	TNKS2
structural_interaction_variant	TNKS2
structural_interaction_variant	TNKS2
splice_acceptor_variant&intron_variant	TNKS2
structural_interaction_variant	FGFBP3
structural_interaction_variant	BTAF1
structural_interaction_variant	BTAF1
structural_interaction_variant	BTAF1
structural_interaction_variant	BTAF1
structural_interaction_variant	BTAF1
missense_variant&splice_region_variant	BTAF1
structural_interaction_variant	BTAF1
structural_interaction_variant	IDE
structural_interaction_variant	IDE
structural_interaction_variant	IDE
missense_variant&splice_region_variant	EXOC6
frameshift_variant	EXOC6
structural_interaction_variant	CYP26A1
structural_interaction_variant	CYP26A1
splice_donor_variant&intron_variant	MYOF
missense_variant&splice_region_variant	MYOF
structural_interaction_variant	MYOF
structural_interaction_variant	MYOF
structural_interaction_variant	MYOF
structural_interaction_variant	MYOF
structural_interaction_variant	MYOF

structural_interaction_variant	MYOF
structural_interaction_variant	MYOF
structural_interaction_variant	MYOF
frameshift_variant	MYOF
structural_interaction_variant	CEP55
structural_interaction_variant	CEP55
structural_interaction_variant	CEP55
structural_interaction_variant	FFAR4
structural_interaction_variant	PDE6C
structural_interaction_variant	PDE6C
structural_interaction_variant	PDE6C
structural_interaction_variant	SLC35G1
structural_interaction_variant	SLC35G1
frameshift_variant	SLC35G1
structural_interaction_variant	TBC1D12
structural_interaction_variant	TBC1D12
structural_interaction_variant	CYP2C18
structural_interaction_variant	CYP2C18
structural_interaction_variant	CYP2C18
structural_interaction_variant	CYP2C18
structural_interaction_variant	CYP2C19
structural_interaction_variant	CYP2C19
structural_interaction_variant	CYP2C9
structural_interaction_variant	CYP2C9
splice_acceptor_variant&intron_variant	CYP2C9
missense_variant&splice_region_variant	CYP2C9
structural_interaction_variant	CYP2C8
structural_interaction_variant	CYP2C8
structural_interaction_variant	CYP2C8
structural_interaction_variant	CYP2C8
structural_interaction_variant	CYP2C8
structural_interaction_variant	CYP2C8
structural_interaction_variant	C10orf129
frameshift_variant	C10orf129
missense_variant&splice_region_variant	C10orf129
structural_interaction_variant	SORBS1
structural_interaction_variant	SORBS1
structural_interaction_variant	SORBS1
structural_interaction_variant	SORBS1
structural_interaction_variant	SORBS1
structural_interaction_variant	ALDH18A1
stop_gained	TCTN3
structural_interaction_variant	ENTPD1
splice_acceptor_variant&intron_variant	C10orf131
splice_acceptor_variant&intron_variant	CC2D2B
stop_gained	CC2D2B
structural_interaction_variant	CC2D2B
structural_interaction_variant	BLNK

structural_interaction_variant	BLNK
missense_variant&splice_region_variant	DNTT
splice_donor_variant&intron_variant	DNTT
frameshift_variant	DNTT
structural_interaction_variant	TLL2
structural_interaction_variant	TLL2
structural_interaction_variant	TLL2
structural_interaction_variant	TLL2
splice_donor_variant&intron_variant	TLL2
structural_interaction_variant	TLL2
structural_interaction_variant	TLL2
structural_interaction_variant	TLL2
structural_interaction_variant	TM9SF3
structural_interaction_variant	PIK3AP1
structural_interaction_variant	PIK3AP1
disruptive_inframe_deletion	PIK3AP1
structural_interaction_variant	LCOR
structural_interaction_variant	LCOR
structural_interaction_variant	LCOR
structural_interaction_variant	LCOR
structural_interaction_variant	LCOR
structural_interaction_variant	C10orf12
structural_interaction_variant	C10orf12
structural_interaction_variant	C10orf12
structural_interaction_variant	C10orf12
structural_interaction_variant	C10orf12
structural_interaction_variant	C10orf12
structural_interaction_variant	C10orf12
stop_gained	SLIT1
structural_interaction_variant	SLIT1
structural_interaction_variant	SLIT1
structural_interaction_variant	SLIT1
structural_interaction_variant	SLIT1
structural_interaction_variant	SLIT1
structural_interaction_variant	SLIT1
missense_variant&splice_region_variant	ARHGAP19
frameshift_variant	ARHGAP19
structural_interaction_variant	RRP12
structural_interaction_variant	RRP12
structural_interaction_variant	RRP12
structural_interaction_variant	RRP12
structural_interaction_variant	ZDHHC16
structural_interaction_variant	MMS19
frameshift_variant	UBTD1
structural_interaction_variant	UBTD1
structural_interaction_variant	ANKRD2
structural_interaction_variant	C10orf62
structural_interaction_variant	C10orf62

structural_interaction_variant	HOGA1
structural_interaction_variant	HOGA1
structural_interaction_variant	ZFYVE27
structural_interaction_variant	GOLGA7B
missense_variant&splice_region_variant	CRTAC1
structural_interaction_variant	R3HCC1L
structural_interaction_variant	R3HCC1L
structural_interaction_variant	R3HCC1L
structural_interaction_variant	R3HCC1L
missense_variant&splice_region_variant	R3HCC1L
structural_interaction_variant	LOXL4
stop_gained	PYROXD2
structural_interaction_variant	PYROXD2
stop_gained	PYROXD2
structural_interaction_variant	HPSE2
missense_variant&splice_region_variant	CNNM1
structural_interaction_variant	CNNM1
structural_interaction_variant	CNNM1
structural_interaction_variant	CNNM1
structural_interaction_variant	GOT1
structural_interaction_variant	GOT1
structural_interaction_variant	NKX2-3
structural_interaction_variant	NKX2-3
frameshift_variant	SLC25A28
structural_interaction_variant	ENTPD7
structural_interaction_variant	ENTPD7
structural_interaction_variant	ENTPD7
structural_interaction_variant	ENTPD7
structural_interaction_variant	ENTPD7
structural_interaction_variant	COX15
structural_interaction_variant	COX15
structural_interaction_variant	COX15
stop_gained	COX15
stop_gained	COX15
structural_interaction_variant	COX15
structural_interaction_variant	ABCC2
structural_interaction_variant	ABCC2
structural_interaction_variant	ABCC2
structural_interaction_variant	CPN1
start_lost	CPN1
structural_interaction_variant	PKD2L1
structural_interaction_variant	PKD2L1
structural_interaction_variant	PKD2L1
structural_interaction_variant	PKD2L1
structural_interaction_variant	PKD2L1
structural_interaction_variant	PKD2L1
structural_interaction_variant	SEC31B
structural_interaction_variant	SEC31B

structural_interaction_variant	SEC31B
structural_interaction_variant	SEC31B
structural_interaction_variant	SEC31B
structural_interaction_variant	SEC31B
structural_interaction_variant	NDUFB8
structural_interaction_variant	NDUFB8
structural_interaction_variant	NDUFB8
structural_interaction_variant	FAM178A
structural_interaction_variant	FAM178A
structural_interaction_variant	FAM178A
structural_interaction_variant	FAM178A
structural_interaction_variant	FAM178A
structural_interaction_variant	FAM178A
structural_interaction_variant	FAM178A
structural_interaction_variant	FAM178A
structural_interaction_variant	SEMA4G
frameshift_variant	SEMA4G
structural_interaction_variant	SEMA4G
frameshift_variant	SEMA4G
frameshift_variant	SEMA4G
structural_interaction_variant	C10orf2
stop_gained	LZTS2
structural_interaction_variant	PDZD7
structural_interaction_variant	PDZD7
structural_interaction_variant	SFXN3
structural_interaction_variant	LBX1
structural_interaction_variant	BTRC
structural_interaction_variant	POLL
structural_interaction_variant	DPCD
structural_interaction_variant	DPCD
structural_interaction_variant	DPCD
structural_interaction_variant	NPM3
structural_interaction_variant	NPM3
structural_interaction_variant	MGEA5
structural_interaction_variant	KCNIP2
structural_interaction_variant	KCNIP2
structural_interaction_variant	C10orf76
structural_interaction_variant	C10orf76
frameshift_variant	C10orf76
frameshift_variant&splice_region_variant	C10orf76
structural_interaction_variant	C10orf76
structural_interaction_variant	HPS6
structural_interaction_variant	LDB1
structural_interaction_variant	LDB1
structural_interaction_variant	PPRC1
structural_interaction_variant	PPRC1
structural_interaction_variant	PPRC1
structural_interaction_variant	PPRC1

structural_interaction_variant	PPRC1
structural_interaction_variant	PPRC1
structural_interaction_variant	PPRC1
structural_interaction_variant	PPRC1
structural_interaction_variant	PPRC1
structural_interaction_variant	PPRC1
structural_interaction_variant	PPRC1
structural_interaction_variant	PPRC1
structural_interaction_variant	NOLC1
structural_interaction_variant	NOLC1
structural_interaction_variant	NOLC1
structural_interaction_variant	NOLC1
structural_interaction_variant	GBF1
structural_interaction_variant	GBF1
missense_variant&splice_region_variant	GBF1
splice_donor_variant&splice_region_variant&intron_	CUEDC2
frameshift_variant&splice_region_variant	CUEDC2
structural_interaction_variant	CUEDC2
structural_interaction_variant	CUEDC2
structural_interaction_variant	C10orf95
structural_interaction_variant	ARL3
structural_interaction_variant	SFXN2
structural_interaction_variant	SFXN2
missense_variant&splice_region_variant	SFXN2
structural_interaction_variant	CYP17A1
structural_interaction_variant	C10orf32-ASMT
structural_interaction_variant	C10orf32-ASMT
structural_interaction_variant	C10orf32-ASMT
structural_interaction_variant	AS3MT
structural_interaction_variant	AS3MT
structural_interaction_variant	RPEL1
stop_gained	PCGF6
structural_interaction_variant	TAF5
structural_interaction_variant	TAF5
structural_interaction_variant	USMG5
structural_interaction_variant	PDCD11
structural_interaction_variant	PDCD11
structural_interaction_variant	PDCD11
structural_interaction_variant	PDCD11
structural_interaction_variant	PDCD11
structural_interaction_variant	PDCD11
structural_interaction_variant	CALHM2
structural_interaction_variant	CALHM2
frameshift_variant	CALHM2
structural_interaction_variant	CALHM1
structural_interaction_variant	CALHM3
structural_interaction_variant	SH3PXD2A
structural_interaction_variant	SH3PXD2A

structural_interaction_variant	SH3PXD2A
structural_interaction_variant	SH3PXD2A
structural_interaction_variant	SH3PXD2A
structural_interaction_variant	SH3PXD2A
structural_interaction_variant	SH3PXD2A
structural_interaction_variant	SH3PXD2A
structural_interaction_variant	SH3PXD2A
structural_interaction_variant	SLK
structural_interaction_variant	COL17A1
missense_variant&splice_region_variant	COL17A1
structural_interaction_variant	WDR96
structural_interaction_variant	WDR96
structural_interaction_variant	WDR96
missense_variant&splice_region_variant	WDR96
structural_interaction_variant	WDR96
structural_interaction_variant	WDR96
structural_interaction_variant	GSTO2
structural_interaction_variant	GSTO2
structural_interaction_variant	GSTO2
structural_interaction_variant	SORCS1
missense_variant&splice_region_variant	SORCS1
structural_interaction_variant	SORCS1
structural_interaction_variant	SORCS1
structural_interaction_variant	SORCS1
structural_interaction_variant	XPNPEP1
structural_interaction_variant	XPNPEP1
structural_interaction_variant	ADD3
structural_interaction_variant	ADD3
missense_variant&splice_region_variant	MXI1
structural_interaction_variant	DUSP5
structural_interaction_variant	DUSP5
structural_interaction_variant	RBM20
structural_interaction_variant	SHOC2
structural_interaction_variant	ADRA2A
structural_interaction_variant	ADRA2A
structural_interaction_variant	ADRA2A
structural_interaction_variant	GPAM
structural_interaction_variant	GPAM
structural_interaction_variant	ACSL5
structural_interaction_variant	ACSL5
structural_interaction_variant	ACSL5
stop_gained	ACSL5
structural_interaction_variant	ZDHHC6
structural_interaction_variant	ZDHHC6
structural_interaction_variant	ZDHHC6
structural_interaction_variant	VTI1A
structural_interaction_variant	TCF7L2
structural_interaction_variant	TCF7L2

structural_interaction_variant	HABP2
structural_interaction_variant	HABP2
structural_interaction_variant	HABP2
structural_interaction_variant	NRAP
structural_interaction_variant	NRAP
structural_interaction_variant	NRAP
structural_interaction_variant	NRAP
structural_interaction_variant	NRAP
structural_interaction_variant	NRAP
structural_interaction_variant	NRAP
frameshift_variant	PLEKHS1
frameshift_variant	PLEKHS1
structural_interaction_variant	DCLRE1A
structural_interaction_variant	DCLRE1A
structural_interaction_variant	DCLRE1A
structural_interaction_variant	DCLRE1A
structural_interaction_variant	DCLRE1A
frameshift_variant	DCLRE1A
structural_interaction_variant	DCLRE1A
structural_interaction_variant	DCLRE1A
structural_interaction_variant	DCLRE1A
structural_interaction_variant	NHLRC2
structural_interaction_variant	ADRB1
stop_gained	C10orf118
structural_interaction_variant	C10orf118
structural_interaction_variant	C10orf118
structural_interaction_variant	C10orf118
structural_interaction_variant	C10orf118
splice_donor_variant&intron_variant	TDRD1
structural_interaction_variant	TDRD1
frameshift_variant	TDRD1
structural_interaction_variant	TDRD1
missense_variant&splice_region_variant	TDRD1
structural_interaction_variant	TDRD1
frameshift_variant	TDRD1
structural_interaction_variant	VWA2
structural_interaction_variant	VWA2
structural_interaction_variant	AFAP1L2
missense_variant&splice_region_variant	AFAP1L2
structural_interaction_variant	AFAP1L2
structural_interaction_variant	ABLIM1
structural_interaction_variant	FAM160B1
structural_interaction_variant	FAM160B1
structural_interaction_variant	FAM160B1
structural_interaction_variant	FAM160B1
structural_interaction_variant	ATRNL1
structural_interaction_variant	ATRNL1
structural_interaction_variant	ATRNL1

frameshift_variant	GFRA1
structural_interaction_variant	GFRA1
structural_interaction_variant	GFRA1
structural_interaction_variant	GFRA1
stop_gained	CCDC172
structural_interaction_variant	PNLIPRP3
structural_interaction_variant	PNLIP
structural_interaction_variant	PNLIP
structural_interaction_variant	PNLIP
stop_gained	PNLIPRP1
structural_interaction_variant	PNLIPRP1
structural_interaction_variant	PNLIPRP2
structural_interaction_variant	C10orf82
structural_interaction_variant	HSPA12A
structural_interaction_variant	HSPA12A
structural_interaction_variant	HSPA12A
structural_interaction_variant	KIAA1598
structural_interaction_variant	VAX1
structural_interaction_variant	VAX1
stop_gained	KCNK18
disruptive_inframe_deletion	SLC18A2
structural_interaction_variant	PDZD8
structural_interaction_variant	PDZD8
structural_interaction_variant	PDZD8
structural_interaction_variant	PDZD8
structural_interaction_variant	RAB11FIP2
structural_interaction_variant	RAB11FIP2
structural_interaction_variant	RAB11FIP2
structural_interaction_variant	RAB11FIP2
structural_interaction_variant	FAM204A
structural_interaction_variant	PRLHR
structural_interaction_variant	NANOS1
structural_interaction_variant	EIF3A
structural_interaction_variant	EIF3A
structural_interaction_variant	EIF3A
structural_interaction_variant	EIF3A
structural_interaction_variant	EIF3A
structural_interaction_variant	EIF3A
structural_interaction_variant	EIF3A
structural_interaction_variant	EIF3A
structural_interaction_variant	EIF3A
structural_interaction_variant	EIF3A
structural_interaction_variant	EIF3A
structural_interaction_variant	EIF3A
structural_interaction_variant	EIF3A
structural_interaction_variant	FAM45A
splice_donor_variant&intron_variant	SFXN4
structural_interaction_variant	PRDX3
structural_interaction_variant	GRK5

structural_interaction_variant	RGS10
structural_interaction_variant	BAG3
structural_interaction_variant	BAG3
missense_variant&splice_region_variant	INPP5F
structural_interaction_variant	INPP5F
structural_interaction_variant	INPP5F
structural_interaction_variant	INPP5F
structural_interaction_variant	INPP5F
structural_interaction_variant	INPP5F
structural_interaction_variant	INPP5F
structural_interaction_variant	INPP5F
structural_interaction_variant	INPP5F
structural_interaction_variant	MCMBP
splice_acceptor_variant&intron_variant	MCMBP
structural_interaction_variant	MCMBP
structural_interaction_variant	SEC23IP
structural_interaction_variant	SEC23IP
structural_interaction_variant	SEC23IP
structural_interaction_variant	SEC23IP
frameshift_variant	SEC23IP
structural_interaction_variant	PPAPDC1A
structural_interaction_variant	WDR11
structural_interaction_variant	WDR11
structural_interaction_variant	FGFR2
structural_interaction_variant	FGFR2
missense_variant&splice_region_variant	FGFR2
structural_interaction_variant	FGFR2
structural_interaction_variant	ATE1
stop_gained	TACC2
stop_gained&splice_region_variant	BTBD16
structural_interaction_variant	BTBD16
structural_interaction_variant	BTBD16
structural_interaction_variant	BTBD16
missense_variant&splice_region_variant	PLEKHA1
structural_interaction_variant	PLEKHA1
stop_gained	PLEKHA1
structural_interaction_variant	PLEKHA1
structural_interaction_variant	DMBT1
structural_interaction_variant	DMBT1
structural_interaction_variant	DMBT1
structural_interaction_variant	DMBT1
stop_gained	CUZD1
structural_interaction_variant	FAM24A
structural_interaction_variant	FAM24A
structural_interaction_variant	ACADSB
disruptive_inframe_deletion	HMX3
structural_interaction_variant	HMX2
structural_interaction_variant	HMX2

structural_interaction_variant	GPR26
structural_interaction_variant	GPR26
structural_interaction_variant	CPXM2
structural_interaction_variant	CPXM2
structural_interaction_variant	CPXM2
structural_interaction_variant	CPXM2
structural_interaction_variant	CPXM2
structural_interaction_variant	LHPP
structural_interaction_variant	LHPP
splice_donor_variant&intron_variant	LHPP
structural_interaction_variant	FAM53B
structural_interaction_variant	METTL10
structural_interaction_variant	METTL10
structural_interaction_variant	FAM175B
structural_interaction_variant	FAM175B
structural_interaction_variant	ZRANB1
structural_interaction_variant	ZRANB1
structural_interaction_variant	CTBP2
structural_interaction_variant	CTBP2
structural_interaction_variant	CTBP2
frameshift_variant	CTBP2
structural_interaction_variant	CTBP2
structural_interaction_variant	TEX36
structural_interaction_variant	EDRF1
structural_interaction_variant	EDRF1
structural_interaction_variant	MMP21
structural_interaction_variant	MMP21
structural_interaction_variant	MMP21
structural_interaction_variant	MMP21
structural_interaction_variant	MMP21
missense_variant&splice_region_variant	UROS
structural_interaction_variant	BCCIP
stop_gained	DHX32
stop_gained	DHX32
structural_interaction_variant	DHX32
structural_interaction_variant	DHX32
structural_interaction_variant	FANK1
structural_interaction_variant	FANK1
structural_interaction_variant	ADAM12
structural_interaction_variant	ADAM12
structural_interaction_variant	ADAM12
structural_interaction_variant	ADAM12
structural_interaction_variant	ADAM12
structural_interaction_variant	C10orf90
structural_interaction_variant	C10orf90
structural_interaction_variant	C10orf90
structural_interaction_variant	C10orf90
structural_interaction_variant	C10orf90

structural_interaction_variant	C10orf90
structural_interaction_variant	DOCK1
structural_interaction_variant	DOCK1
structural_interaction_variant	DOCK1
structural_interaction_variant	DOCK1
stop_gained	DOCK1
missense_variant&splice_region_variant	DOCK1
missense_variant&splice_region_variant	DOCK1
structural_interaction_variant	DOCK1
structural_interaction_variant	DOCK1
structural_interaction_variant	DOCK1
structural_interaction_variant	DOCK1
missense_variant&splice_region_variant	DOCK1
structural_interaction_variant	DOCK1
structural_interaction_variant	DOCK1
structural_interaction_variant	DOCK1
structural_interaction_variant	DOCK1
structural_interaction_variant	CLRN3
structural_interaction_variant	CLRN3
structural_interaction_variant	CLRN3
structural_interaction_variant	CLRN3
frameshift_variant	CLRN3
structural_interaction_variant	PTPRE
structural_interaction_variant	PTPRE
structural_interaction_variant	PTPRE
structural_interaction_variant	MKI67
structural_interaction_variant	MKI67
structural_interaction_variant	MKI67
structural_interaction_variant	MKI67
structural_interaction_variant	MKI67
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structural_interaction_variant	MKI67
structural_interaction_variant	MKI67
structural_interaction_variant	MKI67
structural_interaction_variant	MKI67
structural_interaction_variant	MKI67
stop_gained	MKI67
structural_interaction_variant	MKI67
structural_interaction_variant	MKI67
structural_interaction_variant	MKI67
structural_interaction_variant	MKI67
frameshift_variant	MKI67
structural_interaction_variant	MKI67
structural_interaction_variant	MKI67
structural_interaction_variant	MGMT
structural_interaction_variant	MGMT
structural_interaction_variant	MGMT
structural_interaction_variant	MGMT
structural_interaction_variant	GLRX3

structural_interaction_variant	TCERG1L
structural_interaction_variant	TCERG1L
structural_interaction_variant	TCERG1L
structural_interaction_variant	PPP2R2D
structural_interaction_variant	PPP2R2D
structural_interaction_variant	BNIP3
structural_interaction_variant	BNIP3
structural_interaction_variant	JAKMIP3
structural_interaction_variant	JAKMIP3
structural_interaction_variant	JAKMIP3
splice_acceptor_variant&intron_variant	DPYSL4
structural_interaction_variant	DPYSL4
structural_interaction_variant	DPYSL4
structural_interaction_variant	LRRC27
structural_interaction_variant	LRRC27
structural_interaction_variant	LRRC27
structural_interaction_variant	PWWP2B
structural_interaction_variant	PWWP2B
structural_interaction_variant	C10orf91
structural_interaction_variant	C10orf91
structural_interaction_variant	TTC40
frameshift_variant	TTC40
structural_interaction_variant	TTC40
structural_interaction_variant	TTC40
splice_acceptor_variant&intron_variant	TTC40
structural_interaction_variant	GPR123
structural_interaction_variant	GPR123
structural_interaction_variant	GPR123
structural_interaction_variant	KNDC1
structural_interaction_variant	KNDC1
structural_interaction_variant	KNDC1
structural_interaction_variant	KNDC1
structural_interaction_variant	KNDC1
structural_interaction_variant	VENTX
stop_gained	VENTX
structural_interaction_variant	ADAM8
structural_interaction_variant	ADAM8
structural_interaction_variant	ADAM8
structural_interaction_variant	ADAM8
structural_interaction_variant	ADAM8
structural_interaction_variant	TUBGCP2
structural_interaction_variant	TUBGCP2
structural_interaction_variant	TUBGCP2
structural_interaction_variant	TUBGCP2
start_lost	TUBGCP2
structural_interaction_variant	ZNF511
structural_interaction_variant	ECHS1
structural_interaction_variant	PAOX

structural_interaction_variant	PAOX
structural_interaction_variant	PAOX
structural_interaction_variant	PAOX
frameshift_variant	RP11-108K14.8
structural_interaction_variant	PAOX
structural_interaction_variant	RP11-108K14.8
structural_interaction_variant	MTG1
structural_interaction_variant	SYCE1
structural_interaction_variant	SYCE1
structural_interaction_variant	SYCE1
structural_interaction_variant	SYCE1
structural_interaction_variant	SYCE1
structural_interaction_variant	SCGB1C1
structural_interaction_variant	RIC8A
stop_gained	RIC8A
structural_interaction_variant	RIC8A
structural_interaction_variant	RIC8A
structural_interaction_variant	RIC8A
stop_gained	RIC8A
structural_interaction_variant	SIRT3
structural_interaction_variant	SIRT3
structural_interaction_variant	SIRT3
frameshift_variant	NLRP6
structural_interaction_variant	NLRP6
structural_interaction_variant	ATHL1
structural_interaction_variant	ATHL1
structural_interaction_variant	ATHL1
stop_gained	ATHL1
structural_interaction_variant	IFITM5
structural_interaction_variant	B4GALNT4
structural_interaction_variant	PKP3
structural_interaction_variant	PKP3
structural_interaction_variant	PKP3
structural_interaction_variant	PKP3
structural_interaction_variant	SIGIRR
structural_interaction_variant	SIGIRR
missense_variant&splice_region_variant	ANO9
structural_interaction_variant	ANO9
splice_donor_variant&intron_variant	ANO9
structural_interaction_variant	PTDSS2
structural_interaction_variant	PTDSS2
frameshift_variant	RNH1
structural_interaction_variant	RNH1
structural_interaction_variant	RNH1
structural_interaction_variant	LRRC56
missense_variant&splice_region_variant	LRRC56
structural_interaction_variant	LRRC56
stop_gained	C11orf35

stop_gained	RASSF7
structural_interaction_variant	RASSF7
structural_interaction_variant	PHRF1
structural_interaction_variant	PHRF1
structural_interaction_variant	PHRF1
structural_interaction_variant	PHRF1
structural_interaction_variant	PHRF1
structural_interaction_variant	PHRF1
frameshift_variant	PHRF1
frameshift_variant	PHRF1
structural_interaction_variant	PHRF1
structural_interaction_variant	PHRF1
structural_interaction_variant	PHRF1
structural_interaction_variant	PHRF1
structural_interaction_variant	PHRF1
structural_interaction_variant	IRF7
structural_interaction_variant	IRF7
structural_interaction_variant	IRF7
structural_interaction_variant	IRF7
conservative_inframe_insertion	IRF7
structural_interaction_variant	CDHR5
structural_interaction_variant	CDHR5
structural_interaction_variant	CDHR5
structural_interaction_variant	CDHR5
structural_interaction_variant	DRD4
structural_interaction_variant	TMEM80
structural_interaction_variant	TMEM80
structural_interaction_variant	TMEM80
structural_interaction_variant	TMEM80
structural_interaction_variant	TMEM80
structural_interaction_variant	EPS8L2
structural_interaction_variant	TALDO1
structural_interaction_variant	TALDO1
structural_interaction_variant	PIDD
missense_variant&splice_region_variant	PIDD
structural_interaction_variant	PIDD
structural_interaction_variant	PIDD
structural_interaction_variant	PIDD
structural_interaction_variant	PNPLA2
disruptive_inframe_deletion	CD151
structural_interaction_variant	CD151
conservative_inframe_deletion	CD151
frameshift_variant	CD151
structural_interaction_variant	TSPAN4
structural_interaction_variant	TSPAN4
missense_variant&splice_region_variant	TSPAN4
structural_interaction_variant	TSPAN4
structural_interaction_variant	CHID1

structural_interaction_variant	AP2A2
structural_interaction_variant	AP2A2
structural_interaction_variant	AP2A2
structural_interaction_variant	AP2A2
structural_interaction_variant	MUC6
structural_interaction_variant	MUC6
structural_interaction_variant	MUC6
structural_interaction_variant	MUC6
structural_interaction_variant	MUC6
structural_interaction_variant	MUC6
structural_interaction_variant	MUC6
structural_interaction_variant	MUC6
structural_interaction_variant	MUC2
structural_interaction_variant	MUC2
structural_interaction_variant	MUC2
structural_interaction_variant	MUC2
structural_interaction_variant	MUC2
structural_interaction_variant	MUC2
structural_interaction_variant	MUC2
stop_gained	MUC2
frameshift_variant	MUC2
frameshift_variant	MUC2
missense_variant&splice_region_variant	MUC5AC
structural_interaction_variant	MUC5AC
missense_variant&splice_region_variant	MUC5AC
structural_interaction_variant	MUC5AC
structural_interaction_variant	MUC5B
structural_interaction_variant	MUC5B
structural_interaction_variant	MUC5B
structural_interaction_variant	MUC5B
structural_interaction_variant	MUC5B
structural_interaction_variant	MUC5B
structural_interaction_variant	MUC5B
structural_interaction_variant	MUC5B
structural_interaction_variant	MUC5B
structural_interaction_variant	MUC5B
structural_interaction_variant	MUC5B
structural_interaction_variant	MUC5B
structural_interaction_variant	TOLLIP
structural_interaction_variant	LSP1
structural_interaction_variant	MRPL23
structural_interaction_variant	MRPL23
structural_interaction_variant	MRPL23
structural_interaction_variant	IGF2
structural_interaction_variant	TSPAN32
structural_interaction_variant	TSPAN32
structural_interaction_variant	TSPAN32
structural_interaction_variant	TSSC4

structural_interaction_variant	TRPM5
frameshift_variant	TRPM5
structural_interaction_variant	SLC22A18
structural_interaction_variant	SLC22A18
structural_interaction_variant	SLC22A18
structural_interaction_variant	PHLDA2
structural_interaction_variant	PHLDA2
structural_interaction_variant	NAP1L4
structural_interaction_variant	NAP1L4
structural_interaction_variant	NAP1L4
structural_interaction_variant	CARS
structural_interaction_variant	CARS
stop_gained&splice_region_variant	OSBPL5
structural_interaction_variant	OSBPL5
structural_interaction_variant	OSBPL5
structural_interaction_variant	OSBPL5
structural_interaction_variant	OSBPL5
structural_interaction_variant	MRGPRE
missense_variant&splice_region_variant	ART5
stop_gained	CHRNA10
structural_interaction_variant	NUP98
structural_interaction_variant	NUP98
missense_variant&splice_region_variant	NUP98
structural_interaction_variant	NUP98
structural_interaction_variant	NUP98
structural_interaction_variant	NUP98
structural_interaction_variant	NUP98
structural_interaction_variant	RRM1
structural_interaction_variant	OR52B4
structural_interaction_variant	TRIM21
structural_interaction_variant	TRIM21
structural_interaction_variant	OR52K2
structural_interaction_variant	OR52K2
structural_interaction_variant	OR52K2
structural_interaction_variant	OR52M1
structural_interaction_variant	C11orf40
structural_interaction_variant	OR52I2
structural_interaction_variant	OR52I1
structural_interaction_variant	TRIM68
structural_interaction_variant	TRIM68
structural_interaction_variant	TRIM68
structural_interaction_variant	TRIM68
structural_interaction_variant	TRIM68
frameshift_variant	OR51D1
structural_interaction_variant	OR51D1
structural_interaction_variant	OR51D1
structural_interaction_variant	OR51D1
structural_interaction_variant	OR51D1

structural_interaction_variant	OR51E1
structural_interaction_variant	OR51E2
structural_interaction_variant	OR51E2
structural_interaction_variant	OR51E2
structural_interaction_variant	OR51F1
structural_interaction_variant	OR51F1
structural_interaction_variant	OR52R1
structural_interaction_variant	OR52R1
structural_interaction_variant	OR52R1
structural_interaction_variant	OR52R1
structural_interaction_variant	OR51F2
structural_interaction_variant	OR51F2
structural_interaction_variant	OR51F2
structural_interaction_variant	OR51F2
structural_interaction_variant	OR51F2
structural_interaction_variant	OR51S1
structural_interaction_variant	OR51S1
structural_interaction_variant	OR51S1
structural_interaction_variant	OR51S1
frameshift_variant	OR51S1
structural_interaction_variant	OR51S1
structural_interaction_variant	OR51T1
structural_interaction_variant	OR51A7
structural_interaction_variant	OR51A7
structural_interaction_variant	OR51G2
structural_interaction_variant	OR51G2
structural_interaction_variant	OR51G2
stop_gained	OR51G2
stop_gained	MMP26
structural_interaction_variant	MMP26
structural_interaction_variant	MMP26
structural_interaction_variant	OR52J3
structural_interaction_variant	OR52E2
structural_interaction_variant	OR52E2
structural_interaction_variant	OR52A5
structural_interaction_variant	OR52A5
structural_interaction_variant	OR52A1
structural_interaction_variant	OR52A1
structural_interaction_variant	OR52A1
structural_interaction_variant	OR52A1
structural_interaction_variant	OR52A1
structural_interaction_variant	OR51V1
structural_interaction_variant	OR51V1
structural_interaction_variant	OR51V1
structural_interaction_variant	OR51V1
structural_interaction_variant	OR51V1
structural_interaction_variant	OR51V1
frameshift_variant	HBB

structural_interaction_variant	HBD
stop_gained	HBD
structural_interaction_variant	OR51B4
structural_interaction_variant	OR51B4
structural_interaction_variant	OR51B5
stop_gained	OR51B5
structural_interaction_variant	OR51B6
structural_interaction_variant	OR51B6
structural_interaction_variant	OR51B6
stop_gained	OR51B6
structural_interaction_variant	OR51B6
structural_interaction_variant	OR51M1
structural_interaction_variant	OR51M1
structural_interaction_variant	OR51M1
stop_gained	OR51M1
structural_interaction_variant	OR51M1
structural_interaction_variant	OR51Q1
stop_gained	OR51Q1
structural_interaction_variant	OR51I1
structural_interaction_variant	OR51I1
structural_interaction_variant	OR51I1
structural_interaction_variant	OR51I2
structural_interaction_variant	OR52D1
structural_interaction_variant	OR52D1
structural_interaction_variant	OR52D1
structural_interaction_variant	UBQLN3
structural_interaction_variant	UBQLN3
stop_gained	UBQLNL
structural_interaction_variant	UBQLNL
structural_interaction_variant	OR52H1
structural_interaction_variant	OR52H1
structural_interaction_variant	OR52H1
structural_interaction_variant	OR52H1
structural_interaction_variant	TRIM6-TRIM34
stop_gained	TRIM34
structural_interaction_variant	TRIM5
structural_interaction_variant	TRIM5
structural_interaction_variant	TRIM22
structural_interaction_variant	TRIM22
structural_interaction_variant	TRIM22
structural_interaction_variant	TRIM22
structural_interaction_variant	TRIM22
stop_gained	TRIM22
structural_interaction_variant	OR56B1
structural_interaction_variant	OR56B1
structural_interaction_variant	OR52N4
frameshift_variant	OR52N4
structural_interaction_variant	OR52N1

structural_interaction_variant	OR52E6
structural_interaction_variant	OR52E6
structural_interaction_variant	OR52E6
structural_interaction_variant	OR52E6
stop_gained	OR52E6
structural_interaction_variant	OR52E6
structural_interaction_variant	OR52E8
structural_interaction_variant	OR52E4
structural_interaction_variant	OR52L1
structural_interaction_variant	OR56A4
structural_interaction_variant	OR56A4
structural_interaction_variant	OR56A4
structural_interaction_variant	OR56A1
structural_interaction_variant	OR56B4
structural_interaction_variant	OR56B4
structural_interaction_variant	OR56B4
structural_interaction_variant	OR56B4
structural_interaction_variant	OR56B4
structural_interaction_variant	OR56B4
structural_interaction_variant	OR52B2
structural_interaction_variant	OR52B2
structural_interaction_variant	OR52W1
structural_interaction_variant	OR52W1
structural_interaction_variant	OR52W1
frameshift_variant	OR52W1
structural_interaction_variant	C11orf42
structural_interaction_variant	C11orf42
structural_interaction_variant	C11orf42
structural_interaction_variant	FAM160A2
structural_interaction_variant	FAM160A2
structural_interaction_variant	FAM160A2
structural_interaction_variant	FAM160A2
structural_interaction_variant	CNGA4
structural_interaction_variant	CNGA4
structural_interaction_variant	CNGA4
structural_interaction_variant	CCKBR
structural_interaction_variant	PRKCDBP
structural_interaction_variant	PRKCDBP
structural_interaction_variant	PRKCDBP
structural_interaction_variant	SMPD1
frameshift_variant	SMPD1
frameshift_variant	SMPD1
structural_interaction_variant	APBB1
structural_interaction_variant	HPX
structural_interaction_variant	HPX
structural_interaction_variant	HPX
structural_interaction_variant	TRIM3
structural_interaction_variant	DNHD1

structural_interaction_variant	DNHD1
structural_interaction_variant	DNHD1
structural_interaction_variant	DNHD1
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structural_interaction_variant	DNHD1
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structural_interaction_variant	DNHD1
structural_interaction_variant	DNHD1
structural_interaction_variant	DNHD1
structural_interaction_variant	DNHD1
structural_interaction_variant	RRP8
structural_interaction_variant	ILK
structural_interaction_variant	DCHS1
structural_interaction_variant	DCHS1
structural_interaction_variant	DCHS1
structural_interaction_variant	DCHS1
structural_interaction_variant	MRPL17
structural_interaction_variant	OR2AG2
stop_gained	OR2AG2
structural_interaction_variant	OR2AG1
structural_interaction_variant	OR2AG1
structural_interaction_variant	OR2AG1
structural_interaction_variant	OR6A2
structural_interaction_variant	OR6A2
structural_interaction_variant	OR6A2
structural_interaction_variant	OR6A2
structural_interaction_variant	OR10A5
structural_interaction_variant	OR10A2
structural_interaction_variant	OR10A4
structural_interaction_variant	OR10A4
structural_interaction_variant	OR10A4
structural_interaction_variant	OR10A4
structural_interaction_variant	OR2D2
structural_interaction_variant	OR2D2
structural_interaction_variant	OR2D2
structural_interaction_variant	OR2D2
structural_interaction_variant	OR2D3
structural_interaction_variant	OR2D3
structural_interaction_variant	ZNF214
structural_interaction_variant	ZNF214
structural_interaction_variant	NLRP14
structural_interaction_variant	NLRP14
structural_interaction_variant	NLRP14
frameshift_variant&splice_donor_variant&splice_reg	NLRP14
structural_interaction_variant	RBMXL2
structural_interaction_variant	RBMXL2

structural_interaction_variant	RBMXL2
structural_interaction_variant	SYT9
structural_interaction_variant	SYT9
structural_interaction_variant	SYT9
structural_interaction_variant	OLFML1
structural_interaction_variant	OLFML1
structural_interaction_variant	PPFIBP2
structural_interaction_variant	PPFIBP2
structural_interaction_variant	PPFIBP2
splice_acceptor_variant&intron_variant	PPFIBP2
structural_interaction_variant	PPFIBP2
structural_interaction_variant	CYB5R2
structural_interaction_variant	CYB5R2
structural_interaction_variant	OVCH2
splice_donor_variant&intron_variant	OVCH2
structural_interaction_variant	OVCH2
structural_interaction_variant	OR5P2
structural_interaction_variant	OR5P2
structural_interaction_variant	OR5P2
structural_interaction_variant	OR5P2
start_lost	OR5P3
structural_interaction_variant	OR10A6
structural_interaction_variant	OR10A6
structural_interaction_variant	OR10A6
structural_interaction_variant	OR10A6
structural_interaction_variant	OR10A6
structural_interaction_variant	OR10A6
structural_interaction_variant	OR10A3
structural_interaction_variant	OR10A3
structural_interaction_variant	NLRP10
structural_interaction_variant	NLRP10
structural_interaction_variant	EIF3F
structural_interaction_variant	EIF3F
structural_interaction_variant	EIF3F
structural_interaction_variant	TUB
structural_interaction_variant	TUB
stop_gained	TUB
structural_interaction_variant	TUB
structural_interaction_variant	RIC3
frameshift_variant&stop_gained	STK33
structural_interaction_variant	STK33
splice_acceptor_variant&intron_variant	STK33
structural_interaction_variant	STK33
structural_interaction_variant	STK33
structural_interaction_variant	TRIM66
structural_interaction_variant	TRIM66
structural_interaction_variant	TRIM66
structural_interaction_variant	TRIM66

structural_interaction_variant	TRIM66
structural_interaction_variant	TRIM66
structural_interaction_variant	TRIM66
structural_interaction_variant	TRIM66
missense_variant&splice_region_variant	ST5
structural_interaction_variant	ST5
structural_interaction_variant	ST5
structural_interaction_variant	ST5
structural_interaction_variant	ST5
structural_interaction_variant	ST5
structural_interaction_variant	ST5
structural_interaction_variant	ST5
structural_interaction_variant	AKIP1
missense_variant&splice_region_variant	C11orf16
structural_interaction_variant	NRIP3
structural_interaction_variant	NRIP3
stop_gained	SCUBE2
frameshift_variant&splice_acceptor_variant&splice_r	SCUBE2
structural_interaction_variant	SCUBE2
structural_interaction_variant	SCUBE2
structural_interaction_variant	DENND5A
structural_interaction_variant	DENND5A
structural_interaction_variant	SWAP70
structural_interaction_variant	SWAP70
structural_interaction_variant	SBF2
structural_interaction_variant	SBF2
structural_interaction_variant	AMPD3
structural_interaction_variant	RNF141
structural_interaction_variant	RNF141
structural_interaction_variant	LYVE1
missense_variant&splice_region_variant	MRVI1
frameshift_variant	CTR9
missense_variant&splice_region_variant	EIF4G2
structural_interaction_variant	EIF4G2
structural_interaction_variant	EIF4G2
structural_interaction_variant	GALNT18
frameshift_variant	CSNK2A3
stop_gained	CSNK2A3
structural_interaction_variant	USP47
structural_interaction_variant	USP47
structural_interaction_variant	USP47
structural_interaction_variant	USP47
structural_interaction_variant	USP47
structural_interaction_variant	MICAL2
structural_interaction_variant	MICAL2
structural_interaction_variant	MICAL2
structural_interaction_variant	MICAL2
structural_interaction_variant	MICAL2

structural_interaction_variant	MICALCL
structural_interaction_variant	MICALCL
structural_interaction_variant	MICALCL
structural_interaction_variant	MICALCL
splice_acceptor_variant&intron_variant	MICALCL
structural_interaction_variant	MICALCL
structural_interaction_variant	MICALCL
structural_interaction_variant	ARNTL
structural_interaction_variant	ARNTL
structural_interaction_variant	ARNTL
structural_interaction_variant	ARNTL
structural_interaction_variant	COPB1
structural_interaction_variant	COPB1
structural_interaction_variant	COPB1
structural_interaction_variant	PDE3B
frameshift_variant&stop_gained	PDE3B
structural_interaction_variant	PDE3B
structural_interaction_variant	CYP2R1
frameshift_variant	CYP2R1
structural_interaction_variant	CALCB
structural_interaction_variant	CALCB
structural_interaction_variant	CALCB
structural_interaction_variant	INSC
structural_interaction_variant	INSC
structural_interaction_variant	SOX6
stop_gained	SOX6
missense_variant&splice_region_variant	C11orf58
structural_interaction_variant	PLEKHA7
missense_variant&splice_region_variant	PLEKHA7
structural_interaction_variant	PLEKHA7
structural_interaction_variant	PLEKHA7
structural_interaction_variant	PLEKHA7
missense_variant&splice_region_variant	PLEKHA7
splice_acceptor_variant&intron_variant	RPS13
structural_interaction_variant	RPS13
structural_interaction_variant	PIK3C2A
structural_interaction_variant	PIK3C2A
structural_interaction_variant	PIK3C2A
structural_interaction_variant	PIK3C2A
structural_interaction_variant	PIK3C2A
structural_interaction_variant	PIK3C2A
structural_interaction_variant	NUCB2
structural_interaction_variant	NCR3LG1
frameshift_variant	KCNJ11
structural_interaction_variant	KCNJ11
structural_interaction_variant	KCNJ11
missense_variant&splice_region_variant	ABCC8
structural_interaction_variant	ABCC8

structural_interaction_variant	USH1C
structural_interaction_variant	USH1C
structural_interaction_variant	MYOD1
structural_interaction_variant	SERGEF
stop_gained	SERGEF
structural_interaction_variant	SAAL1
structural_interaction_variant	SAAL1
structural_interaction_variant	SAAL1
structural_interaction_variant	SAAL1
structural_interaction_variant	MRGPRX3
frameshift_variant	LDHC
structural_interaction_variant	LDHC
structural_interaction_variant	LDHAL6A
structural_interaction_variant	TSG101
stop_gained	TSG101
structural_interaction_variant	TSG101
structural_interaction_variant	SPTY2D1
structural_interaction_variant	SPTY2D1
structural_interaction_variant	TMEM86A
structural_interaction_variant	TMEM86A
structural_interaction_variant	IGSF22
structural_interaction_variant	IGSF22
structural_interaction_variant	IGSF22
frameshift_variant	IGSF22
structural_interaction_variant	IGSF22
structural_interaction_variant	PTPN5
structural_interaction_variant	PTPN5
structural_interaction_variant	MRGPRX1
structural_interaction_variant	MRGPRX1
structural_interaction_variant	ZDHHC13
structural_interaction_variant	ZDHHC13
stop_gained	ZDHHC13
structural_interaction_variant	ZDHHC13
structural_interaction_variant	E2F8
structural_interaction_variant	E2F8
structural_interaction_variant	NAV2
structural_interaction_variant	NAV2
structural_interaction_variant	NAV2
structural_interaction_variant	NAV2
splice_donor_variant&intron_variant	NAV2
structural_interaction_variant	NAV2
structural_interaction_variant	NAV2
structural_interaction_variant	NAV2
structural_interaction_variant	NAV2
structural_interaction_variant	DBX1
structural_interaction_variant	HTATIP2
structural_interaction_variant	HTATIP2
structural_interaction_variant	HTATIP2

structural_interaction_variant	SLC6A5
structural_interaction_variant	SLC6A5
structural_interaction_variant	SLC6A5
structural_interaction_variant	NELL1
structural_interaction_variant	NELL1
structural_interaction_variant	NELL1
structural_interaction_variant	ANO5
structural_interaction_variant	ANO5
stop_gained	ANO5
structural_interaction_variant	ANO5
structural_interaction_variant	SLC17A6
structural_interaction_variant	AC103801.2
structural_interaction_variant	LUZP2
structural_interaction_variant	ANO3
structural_interaction_variant	MUC15
missense_variant&splice_region_variant	MUC15
structural_interaction_variant	SLC5A12
structural_interaction_variant	FIBIN
structural_interaction_variant	BBOX1
structural_interaction_variant	CCDC34
structural_interaction_variant	CCDC34
structural_interaction_variant	CCDC34
structural_interaction_variant	LGR4
structural_interaction_variant	BDNF
structural_interaction_variant	BDNF
structural_interaction_variant	BDNF
splice_donor_variant&intron_variant	BDNF
structural_interaction_variant	KIF18A
structural_interaction_variant	KIF18A
structural_interaction_variant	KIF18A
structural_interaction_variant	KIF18A
stop_gained	DCDC1
structural_interaction_variant	DCDC1
frameshift_variant	DCDC1
structural_interaction_variant	DCDC1
structural_interaction_variant	DCDC1
structural_interaction_variant	DCDC1
frameshift_variant	DCDC1
structural_interaction_variant	DCDC1
structural_interaction_variant	DCDC1
structural_interaction_variant	DCDC1
missense_variant&splice_region_variant	DNAJC24
structural_interaction_variant	DNAJC24
structural_interaction_variant	ELP4
structural_interaction_variant	RCN1
structural_interaction_variant	EIF3M
frameshift_variant	EIF3M
structural_interaction_variant	CCDC73

frameshift_variant	CCDC73
structural_interaction_variant	CCDC73
stop_gained	CCDC73
structural_interaction_variant	CCDC73
structural_interaction_variant	CCDC73
structural_interaction_variant	QSER1
structural_interaction_variant	QSER1
structural_interaction_variant	QSER1
structural_interaction_variant	QSER1
structural_interaction_variant	DEPDC7
structural_interaction_variant	DEPDC7
splice_acceptor_variant&intron_variant	TCP11L1
structural_interaction_variant	TCP11L1
structural_interaction_variant	HIPK3
structural_interaction_variant	HIPK3
structural_interaction_variant	HIPK3
structural_interaction_variant	HIPK3
structural_interaction_variant	HIPK3
structural_interaction_variant	KIAA1549L
structural_interaction_variant	KIAA1549L
structural_interaction_variant	KIAA1549L
structural_interaction_variant	KIAA1549L
structural_interaction_variant	KIAA1549L
structural_interaction_variant	KIAA1549L
structural_interaction_variant	AC132216.1
structural_interaction_variant	AC132216.1
structural_interaction_variant	CAPRIN1
structural_interaction_variant	CAPRIN1
structural_interaction_variant	NAT10
structural_interaction_variant	ABTB2
structural_interaction_variant	ABTB2
structural_interaction_variant	ABTB2
structural_interaction_variant	CAT
structural_interaction_variant	CAT
structural_interaction_variant	CAT
structural_interaction_variant	ELF5
structural_interaction_variant	ELF5
structural_interaction_variant	EHF
structural_interaction_variant	APIP
stop_gained	PDHX
structural_interaction_variant	CD44
structural_interaction_variant	CD44
structural_interaction_variant	PAMR1
structural_interaction_variant	PAMR1
structural_interaction_variant	PAMR1
structural_interaction_variant	PAMR1
structural_interaction_variant	PAMR1
structural_interaction_variant	PAMR1

structural_interaction_variant	TRIM44
structural_interaction_variant	LDLRAD3
structural_interaction_variant	LDLRAD3
missense_variant&splice_region_variant	COMMD9
structural_interaction_variant	COMMD9
structural_interaction_variant	TRAF6
structural_interaction_variant	TRAF6
frameshift_variant	C11orf74
structural_interaction_variant	LRRC4C
structural_interaction_variant	LRRC4C
structural_interaction_variant	LRRC4C
structural_interaction_variant	API5
structural_interaction_variant	API5
structural_interaction_variant	TTC17
structural_interaction_variant	TTC17
structural_interaction_variant	TTC17
structural_interaction_variant	TTC17
structural_interaction_variant	TTC17
structural_interaction_variant	TTC17
structural_interaction_variant	HSD17B12
splice_acceptor_variant&5_prime_UTR_variant&intr	ALKBH3
missense_variant&splice_region_variant	ALKBH3
structural_interaction_variant	ALKBH3
structural_interaction_variant	ALKBH3
structural_interaction_variant	ALKBH3
structural_interaction_variant	ALKBH3
structural_interaction_variant	ACCSL
splice_donor_variant&intron_variant	ACCSL
splice_acceptor_variant&intron_variant	ACCSL
stop_gained	ACCSL
structural_interaction_variant	ACCSL
splice_donor_variant&intron_variant	ACCSL
splice_donor_variant&intron_variant	ACCS
structural_interaction_variant	ACCS
structural_interaction_variant	CD82
structural_interaction_variant	TSPAN18
missense_variant&splice_region_variant	TSPAN18
structural_interaction_variant	TSPAN18
structural_interaction_variant	TP53I11
structural_interaction_variant	PRDM11
structural_interaction_variant	PRDM11
structural_interaction_variant	PRDM11
structural_interaction_variant	CHST1
structural_interaction_variant	MAPK8IP1
missense_variant&splice_region_variant	PHF21A
structural_interaction_variant	PHF21A
structural_interaction_variant	PHF21A
structural_interaction_variant	CREB3L1

splice_donor_variant&intron_variant	CREB3L1
structural_interaction_variant	CREB3L1
structural_interaction_variant	DGKZ
structural_interaction_variant	CHRM4
structural_interaction_variant	AMBRA1
structural_interaction_variant	AMBRA1
structural_interaction_variant	AMBRA1
structural_interaction_variant	AMBRA1
structural_interaction_variant	AMBRA1
splice_donor_variant&intron_variant	AMBRA1
structural_interaction_variant	AMBRA1
structural_interaction_variant	HARBI1
structural_interaction_variant	ATG13
frameshift_variant	ATG13
structural_interaction_variant	ATG13
structural_interaction_variant	ATG13
structural_interaction_variant	ATG13
structural_interaction_variant	ARHGAP1
structural_interaction_variant	ZNF408
structural_interaction_variant	ZNF408
structural_interaction_variant	CKAP5
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structural_interaction_variant	CKAP5
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structural_interaction_variant	CKAP5
structural_interaction_variant	CKAP5
structural_interaction_variant	C11orf49
structural_interaction_variant	C11orf49
structural_interaction_variant	C11orf49
structural_interaction_variant	C11orf49
structural_interaction_variant	C11orf49
structural_interaction_variant	C11orf49
structural_interaction_variant	ARFGAP2
structural_interaction_variant	PACSIN3
structural_interaction_variant	PACSIN3
structural_interaction_variant	PACSIN3
stop_gained	ACP2
structural_interaction_variant	NR1H3
structural_interaction_variant	NR1H3
structural_interaction_variant	MADD
structural_interaction_variant	MADD
structural_interaction_variant	MADD
structural_interaction_variant	MADD
structural_interaction_variant	MADD
structural_interaction_variant	MYBPC3
structural_interaction_variant	MYBPC3

structural_interaction_variant	MYBPC3
structural_interaction_variant	SLC39A13
structural_interaction_variant	SLC39A13
structural_interaction_variant	SLC39A13
missense_variant&splice_region_variant	PSMC3
structural_interaction_variant	PSMC3
structural_interaction_variant	PSMC3
structural_interaction_variant	PTPMT1
structural_interaction_variant	KBTBD4
structural_interaction_variant	MTCH2
structural_interaction_variant	AGBL2
structural_interaction_variant	AGBL2
stop_gained	AGBL2
structural_interaction_variant	AGBL2
frameshift_variant	AGBL2
structural_interaction_variant	FNBP4
structural_interaction_variant	FNBP4
structural_interaction_variant	NUP160
structural_interaction_variant	NUP160
structural_interaction_variant	NUP160
structural_interaction_variant	NUP160
structural_interaction_variant	NUP160
structural_interaction_variant	PTPRJ
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structural_interaction_variant	PTPRJ
structural_interaction_variant	OR4B1
structural_interaction_variant	OR4B1
structural_interaction_variant	OR4B1
structural_interaction_variant	OR4B1
structural_interaction_variant	OR4B1
structural_interaction_variant	OR4X2
structural_interaction_variant	OR4X2
structural_interaction_variant	OR4X2
structural_interaction_variant	OR4X2
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structural_interaction_variant	OR4X2
structural_interaction_variant	OR4X2
structural_interaction_variant	OR4X1
structural_interaction_variant	OR4S1
structural_interaction_variant	OR4S1
structural_interaction_variant	OR4C3

structural_interaction_variant	OR4C3
structural_interaction_variant	OR4C3
stop_gained	OR4C3
structural_interaction_variant	OR4C3
structural_interaction_variant	OR4C3
structural_interaction_variant	OR4C3
structural_interaction_variant	OR4C3
structural_interaction_variant	OR4C3
structural_interaction_variant	OR4C3
structural_interaction_variant	OR4C3
structural_interaction_variant	OR4C3
structural_interaction_variant	OR4C12
structural_interaction_variant	OR4C12
structural_interaction_variant	OR4A5
structural_interaction_variant	OR4A16
structural_interaction_variant	OR4A16
structural_interaction_variant	OR4A16
structural_interaction_variant	OR4A16
structural_interaction_variant	OR4A15
structural_interaction_variant	OR4A15
structural_interaction_variant	OR4A15
structural_interaction_variant	OR4C15
structural_interaction_variant	OR4C15
structural_interaction_variant	OR4C15
structural_interaction_variant	OR4C15
structural_interaction_variant	OR4C15
structural_interaction_variant	OR4C16
structural_interaction_variant	OR4C6
structural_interaction_variant	OR4C6
structural_interaction_variant	OR4C6
structural_interaction_variant	OR4C6
structural_interaction_variant	OR4C6
structural_interaction_variant	OR5D13
structural_interaction_variant	OR5D13
structural_interaction_variant	OR5D13
structural_interaction_variant	OR5D14
structural_interaction_variant	OR5L1
stop_gained	OR5L1
structural_interaction_variant	OR5D18
structural_interaction_variant	OR5D18
structural_interaction_variant	OR5D16
structural_interaction_variant	OR5D16
structural_interaction_variant	OR5W2
structural_interaction_variant	OR5I1
structural_interaction_variant	OR5I1
frameshift_variant	OR10AG1
structural_interaction_variant	OR5F1
frameshift_variant	OR5AS1

structural_interaction_variant	OR5AS1
structural_interaction_variant	OR5AS1
structural_interaction_variant	OR8I2
structural_interaction_variant	OR8I2
structural_interaction_variant	OR8I2
structural_interaction_variant	OR8I2
structural_interaction_variant	OR8I2
structural_interaction_variant	OR8I2
structural_interaction_variant	OR8I2
structural_interaction_variant	OR8H2
structural_interaction_variant	OR8H2
structural_interaction_variant	OR8H3
frameshift_variant	OR8J3
structural_interaction_variant	OR8J3
structural_interaction_variant	OR8J3
frameshift_variant	OR8J3
structural_interaction_variant	OR8K5
structural_interaction_variant	OR5J2
structural_interaction_variant	OR5T2
structural_interaction_variant	OR5T3
structural_interaction_variant	OR5T3
structural_interaction_variant	OR5T1
structural_interaction_variant	OR8H1
structural_interaction_variant	OR8H1
structural_interaction_variant	OR8K3
structural_interaction_variant	OR8K3
structural_interaction_variant	OR8K3
frameshift_variant	OR8K1
structural_interaction_variant	OR8K1
structural_interaction_variant	OR8K1
structural_interaction_variant	OR8J1
structural_interaction_variant	OR8J1
structural_interaction_variant	OR8J1
stop_gained	OR8U1
structural_interaction_variant	OR8U1
structural_interaction_variant	OR5R1
frameshift_variant	OR5R1
structural_interaction_variant	OR5M8
frameshift_variant	OR5M8
structural_interaction_variant	OR5M11
structural_interaction_variant	OR5M11
structural_interaction_variant	OR5M10
structural_interaction_variant	OR5AP2
structural_interaction_variant	OR5AP2
structural_interaction_variant	OR5AP2
structural_interaction_variant	OR5AR1
structural_interaction_variant	OR5AR1
disruptive_inframe_deletion	OR9G1

structural_interaction_variant	OR9G1
structural_interaction_variant	OR9G1
structural_interaction_variant	OR9G1
structural_interaction_variant	OR9G1
structural_interaction_variant	OR9G1
structural_interaction_variant	OR9G1
stop_gained	OR9G1
structural_interaction_variant	OR9G4
structural_interaction_variant	OR9G4
frameshift_variant	OR5AK2
structural_interaction_variant	APLNR
structural_interaction_variant	APLNR
structural_interaction_variant	APLNR
structural_interaction_variant	APLNR
structural_interaction_variant	TNKS1BP1
structural_interaction_variant	TNKS1BP1
structural_interaction_variant	TNKS1BP1
structural_interaction_variant	TNKS1BP1
structural_interaction_variant	TNKS1BP1
structural_interaction_variant	SSRP1
structural_interaction_variant	SSRP1
structural_interaction_variant	SSRP1
structural_interaction_variant	P2RX3
structural_interaction_variant	P2RX3
structural_interaction_variant	PRG3
missense_variant&splice_region_variant	PRG3
stop_gained	SLC43A3
structural_interaction_variant	RTN4RL2
structural_interaction_variant	RTN4RL2
structural_interaction_variant	RTN4RL2
structural_interaction_variant	SLC43A1
stop_gained	SERPING1
structural_interaction_variant	ZDHHC5
structural_interaction_variant	MED19
structural_interaction_variant	MED19
stop_gained	CTNND1
structural_interaction_variant	OR6Q1
structural_interaction_variant	OR9I1
structural_interaction_variant	OR9I1
stop_gained	OR9I1
structural_interaction_variant	OR9I1
structural_interaction_variant	OR9Q1
structural_interaction_variant	OR9Q1
structural_interaction_variant	OR9Q1
structural_interaction_variant	OR9Q2
structural_interaction_variant	OR9Q2
structural_interaction_variant	OR1S1
structural_interaction_variant	OR10Q1

structural_interaction_variant	OR10W1
structural_interaction_variant	OR10W1
structural_interaction_variant	OR10W1
structural_interaction_variant	OR5B17
structural_interaction_variant	OR5B17
structural_interaction_variant	OR5B17
structural_interaction_variant	OR5B17
structural_interaction_variant	OR5B3
structural_interaction_variant	OR5B3
structural_interaction_variant	OR5B2
structural_interaction_variant	OR5B2
structural_interaction_variant	OR5B21
structural_interaction_variant	OR5B21
structural_interaction_variant	OR5B21
structural_interaction_variant	LPXN
structural_interaction_variant	ZFP91-CNTF
structural_interaction_variant	ZFP91-CNTF
structural_interaction_variant	ZFP91-CNTF
structural_interaction_variant	CNTF
structural_interaction_variant	CNTF
structural_interaction_variant	CNTF
structural_interaction_variant	GLYAT
structural_interaction_variant	GLYAT
structural_interaction_variant	GLYAT
structural_interaction_variant	GLYAT
structural_interaction_variant	GLYATL2
structural_interaction_variant	GLYATL2
structural_interaction_variant	GLYATL1
frameshift_variant	FAM111B
structural_interaction_variant	FAM111B
structural_interaction_variant	FAM111A
structural_interaction_variant	FAM111A
structural_interaction_variant	FAM111A
structural_interaction_variant	DTX4
structural_interaction_variant	MPEG1
structural_interaction_variant	MPEG1
structural_interaction_variant	MPEG1
structural_interaction_variant	MPEG1
structural_interaction_variant	MPEG1
stop_gained	MPEG1
structural_interaction_variant	MPEG1
structural_interaction_variant	MPEG1
structural_interaction_variant	MPEG1
structural_interaction_variant	MPEG1
start_lost	OR5AN1
structural_interaction_variant	OR5AN1
structural_interaction_variant	OR5A2
structural_interaction_variant	OR5A1

structural_interaction_variant	OR5A1
structural_interaction_variant	OR5A1
stop_gained	OR5A1
structural_interaction_variant	OR4D6
structural_interaction_variant	OR4D6
structural_interaction_variant	OR4D11
structural_interaction_variant	OR4D11
structural_interaction_variant	OR4D9
structural_interaction_variant	OR4D9
structural_interaction_variant	OR4D9
structural_interaction_variant	OR4D9
missense_variant&splice_region_variant	OSBP
structural_interaction_variant	OSBP
structural_interaction_variant	OSBP
structural_interaction_variant	PATL1
structural_interaction_variant	PATL1
structural_interaction_variant	MS4A2
stop_gained	MS4A6A
structural_interaction_variant	MS4A4E
structural_interaction_variant	MS4A4A
frameshift_variant	MS4A6E
structural_interaction_variant	MS4A7
missense_variant&splice_region_variant	MS4A14
structural_interaction_variant	MS4A14
structural_interaction_variant	MS4A5
missense_variant&splice_region_variant	MS4A1
structural_interaction_variant	MS4A12
structural_interaction_variant	MS4A12
structural_interaction_variant	MS4A8
structural_interaction_variant	MS4A10
structural_interaction_variant	MS4A10
structural_interaction_variant	CCDC86
structural_interaction_variant	CCDC86
structural_interaction_variant	ZP1
structural_interaction_variant	ZP1
structural_interaction_variant	ZP1
frameshift_variant	ZP1
structural_interaction_variant	ZP1
structural_interaction_variant	PRPF19
structural_interaction_variant	PRPF19
structural_interaction_variant	PRPF19
structural_interaction_variant	TMEM132A
structural_interaction_variant	SLC15A3
structural_interaction_variant	SLC15A3
structural_interaction_variant	CD5
structural_interaction_variant	CD5
structural_interaction_variant	CD5
structural_interaction_variant	VPS37C

structural_interaction_variant	VWCE
structural_interaction_variant	VWCE
structural_interaction_variant	VWCE
structural_interaction_variant	VWCE
structural_interaction_variant	VWCE
structural_interaction_variant	VWCE
structural_interaction_variant	DDB1
structural_interaction_variant	DDB1
structural_interaction_variant	DAK
structural_interaction_variant	DAK
structural_interaction_variant	DAK
missense_variant&splice_region_variant	DAK
structural_interaction_variant	DAK
structural_interaction_variant	DAK
structural_interaction_variant	DAK
structural_interaction_variant	CYB561A3
structural_interaction_variant	TMEM138
structural_interaction_variant	TMEM138
structural_interaction_variant	CPSF7
structural_interaction_variant	RP11-286N22.8
structural_interaction_variant	RP11-286N22.8
structural_interaction_variant	PPP1R32
structural_interaction_variant	PPP1R32
structural_interaction_variant	DAGLA
structural_interaction_variant	DAGLA
structural_interaction_variant	DAGLA
structural_interaction_variant	MYRF
structural_interaction_variant	FADS1
structural_interaction_variant	FADS3
structural_interaction_variant	FADS3
structural_interaction_variant	FADS3
structural_interaction_variant	RAB3IL1
structural_interaction_variant	INCENP
structural_interaction_variant	INCENP
structural_interaction_variant	INCENP
structural_interaction_variant	INCENP
frameshift_variant	SCGB2A1
structural_interaction_variant	ASRGL1
structural_interaction_variant	AHNAK
structural_interaction_variant	AHNAK
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structural_interaction_variant	AHNAK
structural_interaction_variant	AHNAK
stop_gained	AHNAK
structural_interaction_variant	AHNAK
structural_interaction_variant	AHNAK
structural_interaction_variant	TUT1
structural_interaction_variant	TUT1
structural_interaction_variant	TUT1
structural_interaction_variant	TUT1
structural_interaction_variant	MTA2
structural_interaction_variant	MTA2
structural_interaction_variant	MTA2
structural_interaction_variant	MTA2
structural_interaction_variant	EML3
structural_interaction_variant	EML3
structural_interaction_variant	INTS5
structural_interaction_variant	C11orf48
structural_interaction_variant	METTL12
structural_interaction_variant	METTL12
structural_interaction_variant	C11orf48
structural_interaction_variant	C11orf48
structural_interaction_variant	UBXN1
structural_interaction_variant	UBXN1
structural_interaction_variant	UBXN1
structural_interaction_variant	BSCL2
frameshift_variant	BSCL2
stop_gained	BSCL2
stop_gained	HNRNPUL2
structural_interaction_variant	HNRNPUL2
structural_interaction_variant	HNRNPUL2
structural_interaction_variant	HNRNPUL2
structural_interaction_variant	HNRNPUL2
structural_interaction_variant	TTC9C
structural_interaction_variant	TTC9C
structural_interaction_variant	TTC9C
structural_interaction_variant	TTC9C
structural_interaction_variant	ZBTB3
structural_interaction_variant	POLR2G
structural_interaction_variant	TAF6L
structural_interaction_variant	TAF6L

splice_acceptor_variant&intron_variant	TMEM179B
structural_interaction_variant	TMEM179B
structural_interaction_variant	TMEM223
structural_interaction_variant	TMEM223
structural_interaction_variant	NXF1
missense_variant&splice_region_variant	NXF1
structural_interaction_variant	WDR74
structural_interaction_variant	WDR74
splice_donor_variant&intron_variant	WDR74
structural_interaction_variant	WDR74
structural_interaction_variant	WDR74
splice_acceptor_variant&intron_variant	WDR74
structural_interaction_variant	SLC3A2
structural_interaction_variant	SLC3A2
structural_interaction_variant	SLC3A2
structural_interaction_variant	CHRM1
structural_interaction_variant	CHRM1
structural_interaction_variant	SLC22A6
structural_interaction_variant	SLC22A8
structural_interaction_variant	SLC22A8
structural_interaction_variant	SLC22A24
structural_interaction_variant	SLC22A24
structural_interaction_variant	SLC22A24
structural_interaction_variant	SLC22A10
splice_acceptor_variant&intron_variant	SLC22A10
structural_interaction_variant	SLC22A10
structural_interaction_variant	SLC22A9
stop_gained	RARRES3
structural_interaction_variant	HRASLS2
structural_interaction_variant	PLA2G16
structural_interaction_variant	ATL3
structural_interaction_variant	ATL3
structural_interaction_variant	RTN3
structural_interaction_variant	MARK2
structural_interaction_variant	MARK2
structural_interaction_variant	NAA40
structural_interaction_variant	OTUB1
stop_gained	OTUB1
structural_interaction_variant	OTUB1
missense_variant&splice_region_variant	OTUB1
structural_interaction_variant	OTUB1
structural_interaction_variant	OTUB1
structural_interaction_variant	OTUB1
splice_acceptor_variant&intron_variant	FLRT1
structural_interaction_variant	FLRT1
structural_interaction_variant	NUDT22
structural_interaction_variant	DNAJC4
structural_interaction_variant	FKBP2

structural_interaction_variant	PLCB3
structural_interaction_variant	PLCB3
structural_interaction_variant	PLCB3
structural_interaction_variant	BAD
structural_interaction_variant	GPR137
structural_interaction_variant	KCNK4
missense_variant&splice_region_variant	KCNK4
structural_interaction_variant	KCNK4
structural_interaction_variant	KCNK4
structural_interaction_variant	TEX40
structural_interaction_variant	RPS6KA4
structural_interaction_variant	SLC22A11
structural_interaction_variant	SLC22A11
stop_gained	SLC22A11
frameshift_variant	SLC22A11
structural_interaction_variant	NRXN2
structural_interaction_variant	NRXN2
structural_interaction_variant	NRXN2
structural_interaction_variant	NRXN2
structural_interaction_variant	NRXN2
structural_interaction_variant	NRXN2
structural_interaction_variant	RASGRP2
structural_interaction_variant	PYGM
stop_gained	PYGM
missense_variant&splice_region_variant	PYGM
structural_interaction_variant	PYGM
structural_interaction_variant	PYGM
structural_interaction_variant	SF1
frameshift_variant	CDC42BPG
structural_interaction_variant	CDC42BPG
structural_interaction_variant	CDC42BPG
frameshift_variant	CDC42BPG
structural_interaction_variant	CDC42BPG
structural_interaction_variant	CDC42BPG
structural_interaction_variant	CDC42BPG
structural_interaction_variant	CDC42BPG
structural_interaction_variant	CDC42BPG
structural_interaction_variant	EHD1
structural_interaction_variant	EHD1
structural_interaction_variant	EHD1
structural_interaction_variant	EHD1
missense_variant&splice_region_variant	EHD1
structural_interaction_variant	EHD1
structural_interaction_variant	EHD1
structural_interaction_variant	ATG2A
structural_interaction_variant	ATG2A
stop_gained	ATG2A
structural_interaction_variant	ATG2A

structural_interaction_variant	ATG2A
structural_interaction_variant	PPP2R5B
structural_interaction_variant	SNX15
structural_interaction_variant	NAALADL1
structural_interaction_variant	NAALADL1
structural_interaction_variant	NAALADL1
structural_interaction_variant	NAALADL1
structural_interaction_variant	ZFPL1
structural_interaction_variant	ZFPL1
structural_interaction_variant	TMEM262
structural_interaction_variant	VPS51
structural_interaction_variant	TM7SF2
structural_interaction_variant	TM7SF2
structural_interaction_variant	ZNHIT2
structural_interaction_variant	ZNHIT2
structural_interaction_variant	ZNHIT2
structural_interaction_variant	ZNHIT2
structural_interaction_variant	SYVN1
structural_interaction_variant	SYVN1
structural_interaction_variant	POLA2
structural_interaction_variant	POLA2
structural_interaction_variant	POLA2
structural_interaction_variant	DPF2
structural_interaction_variant	TIGD3
structural_interaction_variant	FRMD8
structural_interaction_variant	EHBP1L1
structural_interaction_variant	EHBP1L1
structural_interaction_variant	EHBP1L1
structural_interaction_variant	EHBP1L1
structural_interaction_variant	EHBP1L1
structural_interaction_variant	AP001362.1
structural_interaction_variant	AP001362.1
stop_gained	KCNK7
structural_interaction_variant	MAP3K11
structural_interaction_variant	MAP3K11
structural_interaction_variant	MAP3K11
structural_interaction_variant	MAP3K11
structural_interaction_variant	MAP3K11
structural_interaction_variant	MAP3K11
structural_interaction_variant	PCNXL3
structural_interaction_variant	PCNXL3
structural_interaction_variant	PCNXL3
structural_interaction_variant	PCNXL3
structural_interaction_variant	PCNXL3
structural_interaction_variant	SIPA1
structural_interaction_variant	RELA
structural_interaction_variant	KAT5
structural_interaction_variant	AP5B1

structural_interaction_variant	SNX32
missense_variant&splice_region_variant	EFEMP2
structural_interaction_variant	EFEMP2
stop_gained	CTSW
structural_interaction_variant	CCDC85B
structural_interaction_variant	FOSL1
structural_interaction_variant	FOSL1
structural_interaction_variant	C11orf68
structural_interaction_variant	DRAP1
structural_interaction_variant	DRAP1
structural_interaction_variant	TSGA10IP
structural_interaction_variant	TSGA10IP
structural_interaction_variant	SART1
structural_interaction_variant	SART1
stop_gained	BANF1
structural_interaction_variant	CST6
stop_lost	CST6
structural_interaction_variant	CATSPER1
structural_interaction_variant	CATSPER1
structural_interaction_variant	SF3B2
structural_interaction_variant	PACS1
structural_interaction_variant	KLC2
structural_interaction_variant	KLC2
structural_interaction_variant	KLC2
structural_interaction_variant	KLC2
structural_interaction_variant	KLC2
structural_interaction_variant	CD248
structural_interaction_variant	CD248
structural_interaction_variant	CD248
structural_interaction_variant	CD248
structural_interaction_variant	CD248
stop_gained	CD248
frameshift_variant	BRMS1
frameshift_variant	BRMS1
structural_interaction_variant	BRMS1
frameshift_variant	BRMS1
structural_interaction_variant	BRMS1
structural_interaction_variant	BRMS1
structural_interaction_variant	SLC29A2
structural_interaction_variant	SLC29A2
structural_interaction_variant	NPAS4
structural_interaction_variant	NPAS4
structural_interaction_variant	MRPL11
structural_interaction_variant	MRPL11
structural_interaction_variant	PELI3
structural_interaction_variant	PELI3
structural_interaction_variant	PELI3
structural_interaction_variant	DPP3

structural_interaction_variant	DPP3
structural_interaction_variant	DPP3
structural_interaction_variant	DPP3
structural_interaction_variant	BBS1
frameshift_variant	BBS1
stop_gained	ACTN3
structural_interaction_variant	ACTN3
structural_interaction_variant	ACTN3
structural_interaction_variant	ACTN3
stop_gained	ACTN3
structural_interaction_variant	CTSF
structural_interaction_variant	CTSF
structural_interaction_variant	CTSF
stop_gained	CCDC87
structural_interaction_variant	CCDC87
structural_interaction_variant	CCDC87
splice_acceptor_variant&intron_variant	CCS
structural_interaction_variant	CCS
structural_interaction_variant	CCS
structural_interaction_variant	CCS
structural_interaction_variant	RBM4
structural_interaction_variant	RBM4
structural_interaction_variant	RBM14
structural_interaction_variant	RBM14
structural_interaction_variant	RBM4B
structural_interaction_variant	SPTBN2
structural_interaction_variant	SPTBN2
structural_interaction_variant	SPTBN2
structural_interaction_variant	SPTBN2
structural_interaction_variant	SPTBN2
stop_gained	SPTBN2
structural_interaction_variant	SPTBN2
structural_interaction_variant	SPTBN2
structural_interaction_variant	SPTBN2
structural_interaction_variant	C11orf80
structural_interaction_variant	C11orf80
splice_acceptor_variant&intron_variant	C11orf80
structural_interaction_variant	PC
structural_interaction_variant	KDM2A
structural_interaction_variant	ANKRD13D
structural_interaction_variant	SSH3
missense_variant&splice_region_variant	SSH3
structural_interaction_variant	RAD9A
missense_variant&splice_region_variant	RAD9A
structural_interaction_variant	TBC1D10C
stop_gained	CARNS1
frameshift_variant	RPS6KB2
splice_acceptor_variant&splice_region_variant&intr	CORO1B

structural_interaction_variant	CORO1B
structural_interaction_variant	CORO1B
structural_interaction_variant	CABP4
structural_interaction_variant	TMEM134
structural_interaction_variant	PITPNM1
stop_gained	PITPNM1
structural_interaction_variant	PITPNM1
structural_interaction_variant	CDK2AP2
structural_interaction_variant	GSTP1
structural_interaction_variant	NDUFV1
structural_interaction_variant	NDUFV1
structural_interaction_variant	TBX10
structural_interaction_variant	ACY3
structural_interaction_variant	ACY3
frameshift_variant	ALDH3B2
structural_interaction_variant	ALDH3B2
frameshift_variant	ALDH3B2
structural_interaction_variant	UNC93B1
structural_interaction_variant	ALDH3B1
structural_interaction_variant	TCIRG1
structural_interaction_variant	CHKA
structural_interaction_variant	CHKA
structural_interaction_variant	C11orf24
structural_interaction_variant	C11orf24
frameshift_variant	PPP6R3
structural_interaction_variant	GAL
structural_interaction_variant	CPT1A
structural_interaction_variant	IGHMBP2
structural_interaction_variant	IGHMBP2
stop_gained	IGHMBP2
structural_interaction_variant	MRGPRD
structural_interaction_variant	MRGPRD
frameshift_variant	MRGPRD
structural_interaction_variant	MRGPRD
frameshift_variant&splice_region_variant	TPCN2
structural_interaction_variant	TPCN2
structural_interaction_variant	TPCN2
structural_interaction_variant	TPCN2
structural_interaction_variant	TPCN2
splice_donor_variant&splice_region_variant&intron_	TPCN2
structural_interaction_variant	MYEOV
frameshift_variant	MYEOV
structural_interaction_variant	MYEOV
structural_interaction_variant	CCND1
missense_variant&splice_region_variant	CCND1
frameshift_variant&stop_gained	ORAOV1
structural_interaction_variant	FGF19
structural_interaction_variant	FGF19

structural_interaction_variant	ANO1
structural_interaction_variant	ANO1
structural_interaction_variant	ANO1
structural_interaction_variant	ANO1
stop_gained	ANO1
structural_interaction_variant	ANO1
structural_interaction_variant	ANO1
protein_protein_contact	FADD
structural_interaction_variant	FADD
structural_interaction_variant	FADD
structural_interaction_variant	PPFIA1
structural_interaction_variant	PPFIA1
structural_interaction_variant	PPFIA1
structural_interaction_variant	PPFIA1
structural_interaction_variant	PPFIA1
structural_interaction_variant	PPFIA1
structural_interaction_variant	PPFIA1
structural_interaction_variant	CTTN
structural_interaction_variant	CTTN
frameshift_variant	CTTN
frameshift_variant	CTTN
stop_gained	CTTN
structural_interaction_variant	SHANK2
structural_interaction_variant	SHANK2
structural_interaction_variant	DHCR7
structural_interaction_variant	NADSYN1
structural_interaction_variant	NADSYN1
structural_interaction_variant	NADSYN1
structural_interaction_variant	NADSYN1
structural_interaction_variant	NADSYN1
structural_interaction_variant	KRTAP5-9
structural_interaction_variant	RP11-849H4.2
structural_interaction_variant	IL18BP
structural_interaction_variant	NUMA1
structural_interaction_variant	NUMA1
structural_interaction_variant	NUMA1
structural_interaction_variant	NUMA1
structural_interaction_variant	NUMA1
stop_gained	NUMA1
structural_interaction_variant	NUMA1
structural_interaction_variant	NUMA1
structural_interaction_variant	NUMA1
structural_interaction_variant	NUMA1
structural_interaction_variant	NUMA1
structural_interaction_variant	INPPL1
structural_interaction_variant	INPPL1
frameshift_variant	CLPB
frameshift_variant&splice_region_variant	CLPB

splice_acceptor_variant&intron_variant	CLPB
structural_interaction_variant	CLPB
structural_interaction_variant	PDE2A
structural_interaction_variant	PDE2A
structural_interaction_variant	PDE2A
structural_interaction_variant	ARAP1
structural_interaction_variant	ARAP1
structural_interaction_variant	ARAP1
structural_interaction_variant	ARAP1
structural_interaction_variant	ARAP1
structural_interaction_variant	ARAP1
structural_interaction_variant	ARAP1
structural_interaction_variant	STARD10
structural_interaction_variant	ATG16L2
structural_interaction_variant	FCHSD2
structural_interaction_variant	FCHSD2
structural_interaction_variant	P2RY2
structural_interaction_variant	P2RY2
structural_interaction_variant	P2RY2
structural_interaction_variant	P2RY6
structural_interaction_variant	ARHGEF17
structural_interaction_variant	ARHGEF17
structural_interaction_variant	ARHGEF17
structural_interaction_variant	ARHGEF17
structural_interaction_variant	ARHGEF17
structural_interaction_variant	ARHGEF17
missense_variant&splice_region_variant	ARHGEF17
structural_interaction_variant	RELT
structural_interaction_variant	RELT
missense_variant&splice_region_variant	FAM168A
structural_interaction_variant	COA4
structural_interaction_variant	PAAF1
structural_interaction_variant	PAAF1
structural_interaction_variant	DNAJB13
missense_variant&splice_region_variant	DNAJB13
splice_donor_variant&intron_variant	DNAJB13
structural_interaction_variant	UCP2
structural_interaction_variant	UCP3
structural_interaction_variant	UCP3
structural_interaction_variant	C2CD3
structural_interaction_variant	C2CD3
stop_gained	C2CD3
structural_interaction_variant	P4HA3
structural_interaction_variant	P4HA3
structural_interaction_variant	P4HA3
structural_interaction_variant	P4HA3
structural_interaction_variant	P4HA3
structural_interaction_variant	PGM2L1

structural_interaction_variant	PGM2L1
structural_interaction_variant	POLD3
structural_interaction_variant	POLD3
structural_interaction_variant	CHRDL2
structural_interaction_variant	CHRDL2
structural_interaction_variant	RNF169
structural_interaction_variant	RNF169
stop_gained	RNF169
frameshift_variant	XRRA1
structural_interaction_variant	XRRA1
structural_interaction_variant	XRRA1
structural_interaction_variant	XRRA1
structural_interaction_variant	XRRA1
structural_interaction_variant	XRRA1
structural_interaction_variant	XRRA1
structural_interaction_variant	XRRA1
frameshift_variant	NEU3
structural_interaction_variant	NEU3
structural_interaction_variant	OR2AT4
structural_interaction_variant	OR2AT4
structural_interaction_variant	SLCO2B1
structural_interaction_variant	SLCO2B1
structural_interaction_variant	SLCO2B1
structural_interaction_variant	ARRB1
structural_interaction_variant	ARRB1
missense_variant&splice_region_variant	KLHL35
structural_interaction_variant	KLHL35
missense_variant&splice_region_variant	GDPD5
structural_interaction_variant	GDPD5
structural_interaction_variant	MAP6
structural_interaction_variant	MAP6
structural_interaction_variant	MOGAT2
structural_interaction_variant	MOGAT2
structural_interaction_variant	MOGAT2
frameshift_variant	DGAT2
structural_interaction_variant	DGAT2
structural_interaction_variant	DGAT2
structural_interaction_variant	DGAT2
structural_interaction_variant	UVRAG
structural_interaction_variant	UVRAG
structural_interaction_variant	UVRAG
structural_interaction_variant	UVRAG
structural_interaction_variant	C11orf30
structural_interaction_variant	C11orf30
structural_interaction_variant	C11orf30
structural_interaction_variant	C11orf30
structural_interaction_variant	C11orf30
structural_interaction_variant	C11orf30

structural_interaction_variant	C11orf30
structural_interaction_variant	TSKU
structural_interaction_variant	TSKU
structural_interaction_variant	TSKU
structural_interaction_variant	TSKU
structural_interaction_variant	CAPN5
structural_interaction_variant	OMP
structural_interaction_variant	OMP
structural_interaction_variant	CAPN5
structural_interaction_variant	CAPN5
structural_interaction_variant	CAPN5
structural_interaction_variant	CAPN5
structural_interaction_variant	CAPN5
structural_interaction_variant	MYO7A
structural_interaction_variant	MYO7A
structural_interaction_variant	AQP11
structural_interaction_variant	AQP11
structural_interaction_variant	AQP11
structural_interaction_variant	RSF1
structural_interaction_variant	RSF1
structural_interaction_variant	RSF1
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structural_interaction_variant	RSF1
structural_interaction_variant	RSF1
structural_interaction_variant	RSF1
structural_interaction_variant	RSF1
frameshift_variant	AAMDC
structural_interaction_variant	AAMDC
stop_gained	INTS4
structural_interaction_variant	THRSP
structural_interaction_variant	THRSP
structural_interaction_variant	NDUFC2
structural_interaction_variant	USP35
structural_interaction_variant	USP35
structural_interaction_variant	USP35
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structural_interaction_variant	USP35
structural_interaction_variant	USP35
structural_interaction_variant	USP35
structural_interaction_variant	GAB2
structural_interaction_variant	GAB2
structural_interaction_variant	GAB2
structural_interaction_variant	GAB2
structural_interaction_variant	NARS2

structural_interaction_variant	TENM4
structural_interaction_variant	TENM4
structural_interaction_variant	TENM4
structural_interaction_variant	TENM4
structural_interaction_variant	TENM4
structural_interaction_variant	TENM4
structural_interaction_variant	TENM4
missense_variant&splice_region_variant	TENM4
structural_interaction_variant	PRCP
structural_interaction_variant	PRCP
structural_interaction_variant	PRCP
structural_interaction_variant	C11orf82
structural_interaction_variant	C11orf82
structural_interaction_variant	C11orf82
structural_interaction_variant	PCF11
structural_interaction_variant	PCF11
structural_interaction_variant	PCF11
structural_interaction_variant	PCF11
structural_interaction_variant	PCF11
structural_interaction_variant	PCF11
structural_interaction_variant	PCF11
structural_interaction_variant	ANKRD42
splice_donor_variant&intron_variant	ANKRD42
structural_interaction_variant	DLG2
structural_interaction_variant	DLG2
structural_interaction_variant	DLG2
structural_interaction_variant	DLG2
structural_interaction_variant	DLG2
stop_gained	SYTL2
frameshift_variant	SYTL2
stop_gained	SYTL2
frameshift_variant	SYTL2
structural_interaction_variant	CCDC83
structural_interaction_variant	PICALM
structural_interaction_variant	PICALM
structural_interaction_variant	PICALM
structural_interaction_variant	CCDC81
frameshift_variant	CCDC81
structural_interaction_variant	CCDC81
structural_interaction_variant	CCDC81
structural_interaction_variant	ME3
structural_interaction_variant	TMEM135
structural_interaction_variant	TMEM135
stop_gained	CTSC
structural_interaction_variant	CTSC
structural_interaction_variant	GRM5
structural_interaction_variant	GRM5
structural_interaction_variant	TYR

structural_interaction_variant	NAALAD2
structural_interaction_variant	NAALAD2
structural_interaction_variant	NAALAD2
structural_interaction_variant	NAALAD2
structural_interaction_variant	CHORDC1
structural_interaction_variant	FAT3
structural_interaction_variant	FAT3
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structural_interaction_variant	FAT3
structural_interaction_variant	FAT3
structural_interaction_variant	FAT3
structural_interaction_variant	FAT3
structural_interaction_variant	FAT3
stop_gained	FAT3
structural_interaction_variant	FAT3
structural_interaction_variant	FAT3
structural_interaction_variant	FAT3
structural_interaction_variant	FAT3
structural_interaction_variant	MTNR1B
structural_interaction_variant	SLC36A4
structural_interaction_variant	CCDC67
structural_interaction_variant	CCDC67
structural_interaction_variant	CCDC67
structural_interaction_variant	CCDC67
frameshift_variant	CCDC67
structural_interaction_variant	KIAA1731
structural_interaction_variant	KIAA1731
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structural_interaction_variant	KIAA1731
structural_interaction_variant	KIAA1731

structural_interaction_variant	KIAA1731
structural_interaction_variant	KIAA1731
structural_interaction_variant	TAF1D
structural_interaction_variant	C11orf54
missense_variant&splice_region_variant	C11orf54
structural_interaction_variant	C11orf54
structural_interaction_variant	MED17
structural_interaction_variant	VSTM5
structural_interaction_variant	VSTM5
structural_interaction_variant	VSTM5
structural_interaction_variant	HEPHL1
structural_interaction_variant	HEPHL1
structural_interaction_variant	HEPHL1
structural_interaction_variant	HEPHL1
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structural_interaction_variant	HEPHL1
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structural_interaction_variant	HEPHL1
structural_interaction_variant	HEPHL1
structural_interaction_variant	HEPHL1
structural_interaction_variant	PANX1
structural_interaction_variant	PANX1
frameshift_variant	PANX1
structural_interaction_variant	FOLR4
structural_interaction_variant	GPR83
structural_interaction_variant	GPR83
structural_interaction_variant	GPR83
frameshift_variant	MRE11A
structural_interaction_variant	MRE11A
structural_interaction_variant	MRE11A
structural_interaction_variant	ANKRD49
structural_interaction_variant	FUT4
structural_interaction_variant	FUT4
structural_interaction_variant	PIWIL4
structural_interaction_variant	PIWIL4
structural_interaction_variant	PIWIL4
structural_interaction_variant	AMOTL1
frameshift_variant	AMOTL1
structural_interaction_variant	AMOTL1
structural_interaction_variant	AMOTL1
structural_interaction_variant	AMOTL1
structural_interaction_variant	AMOTL1
structural_interaction_variant	AMOTL1
structural_interaction_variant	AMOTL1
structural_interaction_variant	AMOTL1
structural_interaction_variant	CWC15
structural_interaction_variant	KDM4D
structural_interaction_variant	KDM4E

structural_interaction_variant	SRSF8
structural_interaction_variant	SRSF8
frameshift_variant	SRSF8
structural_interaction_variant	SRSF8
structural_interaction_variant	SRSF8
structural_interaction_variant	ENDOD1
structural_interaction_variant	ENDOD1
structural_interaction_variant	ENDOD1
structural_interaction_variant	ENDOD1
structural_interaction_variant	SESN3
structural_interaction_variant	MTMR2
structural_interaction_variant	MAML2
structural_interaction_variant	MAML2
structural_interaction_variant	MAML2
structural_interaction_variant	MAML2
structural_interaction_variant	CCDC82
structural_interaction_variant	CCDC82
structural_interaction_variant	CCDC82
frameshift_variant	CCDC82
structural_interaction_variant	JRKL
structural_interaction_variant	JRKL
structural_interaction_variant	JRKL
structural_interaction_variant	JRKL
structural_interaction_variant	JRKL
structural_interaction_variant	JRKL
structural_interaction_variant	CNTN5
structural_interaction_variant	CNTN5
structural_interaction_variant	ARHGAP42
structural_interaction_variant	ARHGAP42
structural_interaction_variant	ARHGAP42
structural_interaction_variant	PGR
structural_interaction_variant	PGR
structural_interaction_variant	PGR
frameshift_variant	TRPC6
structural_interaction_variant	TRPC6
stop_gained	TRPC6
stop_gained	TRPC6
structural_interaction_variant	ANGPTL5
structural_interaction_variant	KIAA1377
structural_interaction_variant	KIAA1377
stop_gained	KIAA1377
structural_interaction_variant	KIAA1377
structural_interaction_variant	YAP1
structural_interaction_variant	YAP1
structural_interaction_variant	BIRC3
disruptive_inframe_deletion	BIRC3
structural_interaction_variant	BIRC3
structural_interaction_variant	BIRC3

structural_interaction_variant	BIRC2
structural_interaction_variant	BIRC2
structural_interaction_variant	BIRC2
structural_interaction_variant	BIRC2
conservative_inframe_deletion	TMEM123
structural_interaction_variant	TMEM123
structural_interaction_variant	MMP7
structural_interaction_variant	MMP7
missense_variant&splice_region_variant	MMP7
structural_interaction_variant	MMP20
splice_donor_variant&intron_variant	MMP27
structural_interaction_variant	MMP27
structural_interaction_variant	MMP27
structural_interaction_variant	MMP27
structural_interaction_variant	MMP27
stop_gained	MMP27
stop_gained	MMP27
structural_interaction_variant	MMP27
structural_interaction_variant	MMP27
frameshift_variant	MMP27
structural_interaction_variant	MMP8
structural_interaction_variant	MMP8
structural_interaction_variant	MMP8
structural_interaction_variant	MMP10
structural_interaction_variant	MMP10
structural_interaction_variant	MMP3
structural_interaction_variant	MMP3
structural_interaction_variant	DYNC2H1
frameshift_variant	DYNC2H1
structural_interaction_variant	DYNC2H1
structural_interaction_variant	DYNC2H1
structural_interaction_variant	DYNC2H1
structural_interaction_variant	PDGFD
structural_interaction_variant	PDGFD
structural_interaction_variant	CASP4
structural_interaction_variant	CASP5
structural_interaction_variant	CASP5
structural_interaction_variant	CASP5
structural_interaction_variant	CASP1
frameshift_variant	CARD16
structural_interaction_variant	CARD16
structural_interaction_variant	CARD16
structural_interaction_variant	CARD17
structural_interaction_variant	CARD17
structural_interaction_variant	CARD17
structural_interaction_variant	CARD17
start_lost	CARD16
structural_interaction_variant	GRIA4

structural_interaction_variant	GRIA4
structural_interaction_variant	MSANTD4
structural_interaction_variant	MSANTD4
structural_interaction_variant	KBTBD3
structural_interaction_variant	AASDHPPT
structural_interaction_variant	AASDHPPT
structural_interaction_variant	AASDHPPT
missense_variant&splice_region_variant	AASDHPPT
structural_interaction_variant	AASDHPPT
structural_interaction_variant	AASDHPPT
structural_interaction_variant	AASDHPPT
missense_variant&splice_region_variant	AASDHPPT
structural_interaction_variant	CWF19L2
structural_interaction_variant	CWF19L2
structural_interaction_variant	CWF19L2
missense_variant&splice_region_variant	CWF19L2
structural_interaction_variant	CWF19L2
structural_interaction_variant	CWF19L2
frameshift_variant	CWF19L2
structural_interaction_variant	CWF19L2
structural_interaction_variant	CWF19L2
structural_interaction_variant	CWF19L2
structural_interaction_variant	CWF19L2
structural_interaction_variant	ALKBH8
structural_interaction_variant	ALKBH8
stop_gained&splice_region_variant	ALKBH8
structural_interaction_variant	ALKBH8
structural_interaction_variant	ELMOD1
structural_interaction_variant	SLN
structural_interaction_variant	SLC35F2
structural_interaction_variant	SLC35F2
structural_interaction_variant	RAB39A
splice_donor_variant&intron_variant	CUL5
structural_interaction_variant	CUL5
structural_interaction_variant	CUL5
structural_interaction_variant	ACAT1
structural_interaction_variant	NPAT
structural_interaction_variant	NPAT
structural_interaction_variant	NPAT
structural_interaction_variant	NPAT
stop_gained	ATM
stop_gained	ATM
structural_interaction_variant	ATM
structural_interaction_variant	KDELC2
structural_interaction_variant	KDELC2
structural_interaction_variant	KDELC2
frameshift_variant	KDELC2
structural_interaction_variant	KDELC2

stop_gained	EXPH5
stop_gained	EXPH5
structural_interaction_variant	EXPH5
structural_interaction_variant	EXPH5
structural_interaction_variant	DDX10
structural_interaction_variant	DDX10
structural_interaction_variant	DDX10
structural_interaction_variant	DDX10
structural_interaction_variant	C11orf87
stop_gained	RDX
structural_interaction_variant	ARHGAP20
structural_interaction_variant	ARHGAP20
structural_interaction_variant	ARHGAP20
structural_interaction_variant	ARHGAP20
frameshift_variant	ARHGAP20
structural_interaction_variant	ARHGAP20
structural_interaction_variant	ARHGAP20
structural_interaction_variant	ARHGAP20
structural_interaction_variant	ARHGAP20
structural_interaction_variant	ARHGAP20
structural_interaction_variant	C11orf53
stop_gained	C11orf53
start_lost	COLCA2
structural_interaction_variant	C11orf88
structural_interaction_variant	C11orf88
structural_interaction_variant	LAYN
structural_interaction_variant	SIK2
structural_interaction_variant	SIK2
structural_interaction_variant	SIK2
structural_interaction_variant	SIK2
frameshift_variant	PPP2R1B
structural_interaction_variant	PPP2R1B
stop_gained	PPP2R1B
disruptive_inframe_deletion	PPP2R1B
structural_interaction_variant	PPP2R1B
structural_interaction_variant	PPP2R1B
structural_interaction_variant	PPP2R1B
structural_interaction_variant	PPP2R1B
structural_interaction_variant	ALG9
structural_interaction_variant	FDXACB1
splice_acceptor_variant&intron_variant	FDXACB1
frameshift_variant	FDXACB1
structural_interaction_variant	FDXACB1
structural_interaction_variant	FDXACB1
structural_interaction_variant	FDXACB1
structural_interaction_variant	FDXACB1
structural_interaction_variant	FDXACB1
structural_interaction_variant	C11orf1

stop_gained	C11orf52
structural_interaction_variant	C11orf52
stop_gained	DIXDC1
structural_interaction_variant	DIXDC1
stop_gained	DIXDC1
structural_interaction_variant	PIH1D2
structural_interaction_variant	C11orf57
structural_interaction_variant	TEX12
structural_interaction_variant	BCO2
structural_interaction_variant	BCO2
stop_gained	BCO2
structural_interaction_variant	NCAM1
structural_interaction_variant	TTC12
structural_interaction_variant	TTC12
structural_interaction_variant	TTC12
stop_gained	TTC12
structural_interaction_variant	ANKK1
structural_interaction_variant	ANKK1
frameshift_variant	ANKK1
structural_interaction_variant	ANKK1
structural_interaction_variant	ANKK1
structural_interaction_variant	ANKK1
structural_interaction_variant	TMPRSS5
structural_interaction_variant	TMPRSS5
structural_interaction_variant	ZW10
structural_interaction_variant	ZW10
structural_interaction_variant	ZW10
structural_interaction_variant	CLDN25
structural_interaction_variant	CLDN25
structural_interaction_variant	USP28
structural_interaction_variant	USP28
structural_interaction_variant	USP28
structural_interaction_variant	USP28
structural_interaction_variant	USP28
splice_acceptor_variant&intron_variant	HTR3B
structural_interaction_variant	HTR3B
structural_interaction_variant	HTR3B
structural_interaction_variant	HTR3B
structural_interaction_variant	HTR3B
structural_interaction_variant	HTR3A
structural_interaction_variant	HTR3A
structural_interaction_variant	HTR3A
structural_interaction_variant	HTR3A
structural_interaction_variant	HTR3A
structural_interaction_variant	HTR3A
structural_interaction_variant	ZBTB16
structural_interaction_variant	ZBTB16
structural_interaction_variant	ZBTB16

structural_interaction_variant	NNMT
structural_interaction_variant	NNMT
structural_interaction_variant	NNMT
structural_interaction_variant	RBM7
structural_interaction_variant	NXPE1
stop_gained	NXPE1
structural_interaction_variant	NXPE4
structural_interaction_variant	NXPE2
structural_interaction_variant	NXPE2
stop_gained	NXPE2
structural_interaction_variant	CADM1
structural_interaction_variant	BUD13
structural_interaction_variant	APOA5
frameshift_variant	APOA4
structural_interaction_variant	APOA4
structural_interaction_variant	APOA1
structural_interaction_variant	SIK3
frameshift_variant	SIK3
structural_interaction_variant	SIK3
structural_interaction_variant	SIK3
missense_variant&splice_region_variant	SIDT2
structural_interaction_variant	TAGLN
structural_interaction_variant	TAGLN
structural_interaction_variant	PCSK7
missense_variant&splice_region_variant	PCSK7
structural_interaction_variant	PCSK7
structural_interaction_variant	RNF214
structural_interaction_variant	RNF214
structural_interaction_variant	RNF214
structural_interaction_variant	BACE1
structural_interaction_variant	DSCAML1
structural_interaction_variant	DSCAML1
structural_interaction_variant	DSCAML1
structural_interaction_variant	DSCAML1
structural_interaction_variant	TMPRSS13
stop_gained	TMPRSS4
structural_interaction_variant	TMPRSS4
structural_interaction_variant	SCN4B
structural_interaction_variant	SCN2B
structural_interaction_variant	AMICA1
structural_interaction_variant	MPZL3
structural_interaction_variant	MPZL2
stop_gained	MPZL2
frameshift_variant	MPZL2
structural_interaction_variant	CD3E
structural_interaction_variant	CD3E
disruptive_inframe_deletion	CD3D
structural_interaction_variant	CD3D

stop_gained	CD3G
structural_interaction_variant	UBE4A
structural_interaction_variant	UBE4A
stop_gained	TTC36
frameshift_variant	TMEM25
structural_interaction_variant	TMEM25
structural_interaction_variant	ARCN1
missense_variant&splice_region_variant	ARCN1
stop_gained	PHLDB1
structural_interaction_variant	PHLDB1
stop_gained	PHLDB1
structural_interaction_variant	PHLDB1
structural_interaction_variant	PHLDB1
structural_interaction_variant	PHLDB1
structural_interaction_variant	PHLDB1
structural_interaction_variant	PHLDB1
structural_interaction_variant	DDX6
structural_interaction_variant	CXCR5
structural_interaction_variant	BCL9L
structural_interaction_variant	BCL9L
structural_interaction_variant	BCL9L
structural_interaction_variant	BCL9L
structural_interaction_variant	BCL9L
structural_interaction_variant	BCL9L
structural_interaction_variant	FOXR1
structural_interaction_variant	FOXR1
structural_interaction_variant	CCDC84
structural_interaction_variant	TRAPPC4
structural_interaction_variant	HYOU1
structural_interaction_variant	HYOU1
structural_interaction_variant	VPS11
frameshift_variant	VPS11
structural_interaction_variant	VPS11
structural_interaction_variant	VPS11
structural_interaction_variant	VPS11
stop_gained&splice_region_variant	ABCG4
frameshift_variant	ABCG4
structural_interaction_variant	ABCG4
structural_interaction_variant	NLRX1
frameshift_variant	PDZD3
structural_interaction_variant	PDZD3
structural_interaction_variant	PDZD3
structural_interaction_variant	PDZD3
structural_interaction_variant	PDZD3
frameshift_variant	CBL
structural_interaction_variant	MCAM
structural_interaction_variant	MCAM
structural_interaction_variant	MCAM

structural_interaction_variant	MFRP
structural_interaction_variant	USP2
structural_interaction_variant	USP2
structural_interaction_variant	USP2
structural_interaction_variant	USP2
structural_interaction_variant	PVRL1
structural_interaction_variant	PVRL1
structural_interaction_variant	TRIM29
structural_interaction_variant	TRIM29
splice_donor_variant&3_prime_UTR_variant&intron	TRIM29
structural_interaction_variant	TRIM29
structural_interaction_variant	TRIM29
structural_interaction_variant	TRIM29
stop_gained	OAF
structural_interaction_variant	ARHGEF12
structural_interaction_variant	ARHGEF12
structural_interaction_variant	ARHGEF12
stop_gained	ARHGEF12
structural_interaction_variant	ARHGEF12
structural_interaction_variant	GRIK4
structural_interaction_variant	GRIK4
structural_interaction_variant	GRIK4
stop_gained	TECTA
stop_gained	TECTA
stop_gained	TECTA
structural_interaction_variant	SORL1
structural_interaction_variant	SORL1
structural_interaction_variant	SORL1
stop_gained	SORL1
structural_interaction_variant	UBASH3B
structural_interaction_variant	CRTAM
structural_interaction_variant	CRTAM
structural_interaction_variant	C11orf63
structural_interaction_variant	C11orf63
structural_interaction_variant	C11orf63
structural_interaction_variant	C11orf63
structural_interaction_variant	BSX
structural_interaction_variant	BSX
structural_interaction_variant	HSPA8
structural_interaction_variant	GRAMD1B
structural_interaction_variant	ZNF202
structural_interaction_variant	ZNF202
structural_interaction_variant	ZNF202
structural_interaction_variant	ZNF202
structural_interaction_variant	ZNF202
structural_interaction_variant	OR6X1
structural_interaction_variant	OR6X1
stop_gained	OR6M1

structural_interaction_variant	OR8D4
structural_interaction_variant	OR4D5
structural_interaction_variant	OR4D5
structural_interaction_variant	OR6T1
structural_interaction_variant	OR10S1
structural_interaction_variant	OR10S1
structural_interaction_variant	OR10S1
structural_interaction_variant	VWA5A
structural_interaction_variant	VWA5A
structural_interaction_variant	VWA5A
missense_variant&splice_region_variant	VWA5A
structural_interaction_variant	VWA5A
structural_interaction_variant	VWA5A
structural_interaction_variant	OR8G1
structural_interaction_variant	OR8G1
structural_interaction_variant	OR8G1
structural_interaction_variant	OR8G1
structural_interaction_variant	OR8G5
structural_interaction_variant	OR8G5
structural_interaction_variant	OR8D1
stop_gained	OR8D1
structural_interaction_variant	OR8B4
structural_interaction_variant	OR8B12
frameshift_variant	OR8A1
structural_interaction_variant	OR8A1
stop_gained	OR8A1
structural_interaction_variant	OR8A1
structural_interaction_variant	OR8A1
frameshift_variant	PANX3
structural_interaction_variant	TBRG1
structural_interaction_variant	TBRG1
structural_interaction_variant	TBRG1
structural_interaction_variant	SIAE
structural_interaction_variant	SIAE
structural_interaction_variant	SPA17
structural_interaction_variant	VSIG2
structural_interaction_variant	VSIG2
structural_interaction_variant	ESAM
structural_interaction_variant	ESAM
structural_interaction_variant	MSANTD2
stop_gained	ROBO3
structural_interaction_variant	ROBO3
structural_interaction_variant	ROBO4
structural_interaction_variant	ROBO4
structural_interaction_variant	CCDC15
structural_interaction_variant	CCDC15
stop_gained	CCDC15
splice_donor_variant&intron_variant	CCDC15

missense_variant&splice_region_variant	CCDC15
structural_interaction_variant	CCDC15
structural_interaction_variant	CCDC15
structural_interaction_variant	CCDC15
structural_interaction_variant	SLC37A2
structural_interaction_variant	SLC37A2
structural_interaction_variant	PKNOX2
structural_interaction_variant	PKNOX2
structural_interaction_variant	PKNOX2
structural_interaction_variant	FEZ1
structural_interaction_variant	FEZ1
structural_interaction_variant	FEZ1
structural_interaction_variant	STT3A
stop_gained	STT3A
missense_variant&splice_region_variant	CHEK1
structural_interaction_variant	ACRV1
frameshift_variant	ACRV1
frameshift_variant	ACRV1
frameshift_variant	PUS3
structural_interaction_variant	HYLS1
stop_gained	HYLS1
structural_interaction_variant	DDX25
structural_interaction_variant	DDX25
structural_interaction_variant	DDX25
structural_interaction_variant	CDON
structural_interaction_variant	RPUSD4
structural_interaction_variant	RPUSD4
structural_interaction_variant	RPUSD4
structural_interaction_variant	SRPR
structural_interaction_variant	SRPR
structural_interaction_variant	SRPR
structural_interaction_variant	SRPR
structural_interaction_variant	SRPR
structural_interaction_variant	SRPR
stop_gained	TIRAP
structural_interaction_variant	TIRAP
stop_gained&splice_region_variant	DCPS
structural_interaction_variant	DCPS
structural_interaction_variant	ST3GAL4
structural_interaction_variant	KIRREL3
structural_interaction_variant	KIRREL3
structural_interaction_variant	KIRREL3
structural_interaction_variant	ETS1
structural_interaction_variant	ETS1
structural_interaction_variant	ETS1
structural_interaction_variant	ETS1
structural_interaction_variant	KCNJ1
structural_interaction_variant	KCNJ1

structural_interaction_variant	KCNJ1
structural_interaction_variant	KCNJ1
missense_variant&splice_region_variant	TP53AIP1
structural_interaction_variant	ARHGAP32
structural_interaction_variant	ARHGAP32
structural_interaction_variant	BARX2
structural_interaction_variant	BARX2
structural_interaction_variant	TMEM45B
stop_gained	TMEM45B
structural_interaction_variant	NFRKB
structural_interaction_variant	NFRKB
structural_interaction_variant	NFRKB
structural_interaction_variant	PRDM10
structural_interaction_variant	PRDM10
structural_interaction_variant	APLP2
structural_interaction_variant	APLP2
structural_interaction_variant	APLP2
structural_interaction_variant	APLP2
missense_variant&splice_region_variant	APLP2
structural_interaction_variant	ZBTB44
structural_interaction_variant	ZBTB44
structural_interaction_variant	ADAMTS8
stop_gained	ADAMTS8
structural_interaction_variant	ADAMTS8
structural_interaction_variant	ADAMTS8
structural_interaction_variant	ADAMTS15
structural_interaction_variant	ADAMTS15
structural_interaction_variant	ADAMTS15
structural_interaction_variant	ADAMTS15
splice_donor_variant&intron_variant	SNX19
structural_interaction_variant	SNX19
structural_interaction_variant	SNX19
frameshift_variant	SNX19
structural_interaction_variant	SNX19
structural_interaction_variant	NTM
structural_interaction_variant	IGSF9B
structural_interaction_variant	IGSF9B
structural_interaction_variant	IGSF9B
structural_interaction_variant	IGSF9B
structural_interaction_variant	IGSF9B
structural_interaction_variant	IGSF9B
structural_interaction_variant	IGSF9B
structural_interaction_variant	IGSF9B
structural_interaction_variant	IGSF9B
structural_interaction_variant	IGSF9B
structural_interaction_variant	JAM3
structural_interaction_variant	NCAPD3
structural_interaction_variant	NCAPD3

structural_interaction_variant	NCAPD3
structural_interaction_variant	VPS26B
structural_interaction_variant	VPS26B
splice_donor_variant&intron_variant	ACAD8
structural_interaction_variant	GLB1L3
structural_interaction_variant	GLB1L3
structural_interaction_variant	GLB1L3
structural_interaction_variant	GLB1L2
missense_variant&splice_region_variant	GLB1L2
structural_interaction_variant	IQSEC3
structural_interaction_variant	IQSEC3
structural_interaction_variant	SLC6A12
structural_interaction_variant	SLC6A12
frameshift_variant	SLC6A12
structural_interaction_variant	SLC6A13
structural_interaction_variant	KDM5A
structural_interaction_variant	KDM5A
structural_interaction_variant	CCDC77
structural_interaction_variant	CCDC77
structural_interaction_variant	CCDC77
structural_interaction_variant	CCDC77
structural_interaction_variant	B4GALNT3
structural_interaction_variant	B4GALNT3
structural_interaction_variant	NINJ2
frameshift_variant	WNK1
structural_interaction_variant	WNK1
structural_interaction_variant	WNK1
structural_interaction_variant	RAD52
structural_interaction_variant	RAD52
missense_variant&splice_region_variant	RAD52
structural_interaction_variant	RAD52
structural_interaction_variant	RAD52
structural_interaction_variant	ERC1
structural_interaction_variant	ERC1
structural_interaction_variant	ERC1
structural_interaction_variant	ERC1
structural_interaction_variant	ERC1
missense_variant&splice_region_variant	FBXL14
structural_interaction_variant	WNT5B
structural_interaction_variant	WNT5B
structural_interaction_variant	ADIPOR2
structural_interaction_variant	LRTM2
structural_interaction_variant	DCP1B
structural_interaction_variant	DCP1B
structural_interaction_variant	DCP1B
structural_interaction_variant	DCP1B
structural_interaction_variant	DCP1B
structural_interaction_variant	CACNA1C

structural_interaction_variant	ITFG2
structural_interaction_variant	ITFG2
structural_interaction_variant	NRIP2
structural_interaction_variant	AC005841.1
structural_interaction_variant	FOXM1
structural_interaction_variant	FOXM1
structural_interaction_variant	TULP3
structural_interaction_variant	TULP3
structural_interaction_variant	TEAD4
structural_interaction_variant	TEAD4
structural_interaction_variant	TSPAN9
structural_interaction_variant	TSPAN9
structural_interaction_variant	TSPAN9
structural_interaction_variant	PRMT8
structural_interaction_variant	EFCAB4B
structural_interaction_variant	EFCAB4B
structural_interaction_variant	PARP11
structural_interaction_variant	PARP11
structural_interaction_variant	C12orf5
structural_interaction_variant	FGF23
structural_interaction_variant	FGF6
stop_gained	C12orf4
splice_acceptor_variant&intron_variant	DYRK4
structural_interaction_variant	DYRK4
structural_interaction_variant	DYRK4
frameshift_variant&stop_gained	DYRK4
frameshift_variant	DYRK4
structural_interaction_variant	AKAP3
structural_interaction_variant	AKAP3
structural_interaction_variant	AKAP3
structural_interaction_variant	AKAP3
structural_interaction_variant	GALNT8
structural_interaction_variant	GALNT8
structural_interaction_variant	GALNT8
structural_interaction_variant	GALNT8
structural_interaction_variant	GALNT8
structural_interaction_variant	GALNT8
structural_interaction_variant	GALNT8
structural_interaction_variant	KCNA6
structural_interaction_variant	KCNA6
splice_acceptor_variant&intron_variant	NTF3
structural_interaction_variant	NTF3
structural_interaction_variant	ANO2
structural_interaction_variant	ANO2
structural_interaction_variant	VWF
splice_donor_variant&intron_variant	PLEKHG6
structural_interaction_variant	TNFRSF1A
structural_interaction_variant	SCNN1A

structural_interaction_variant	SCNN1A
structural_interaction_variant	CD27
splice_acceptor_variant&intron_variant	CD27
structural_interaction_variant	CD27
structural_interaction_variant	CD27
structural_interaction_variant	MRPL51
structural_interaction_variant	MRPL51
splice_donor_variant&intron_variant	MRPL51
structural_interaction_variant	MRPL51
structural_interaction_variant	NCAPD2
stop_gained	NCAPD2
structural_interaction_variant	NCAPD2
structural_interaction_variant	NCAPD2
structural_interaction_variant	NCAPD2
stop_gained	NCAPD2
structural_interaction_variant	NCAPD2
structural_interaction_variant	NCAPD2
structural_interaction_variant	NCAPD2
structural_interaction_variant	NCAPD2
missense_variant&splice_region_variant	NCAPD2
structural_interaction_variant	NCAPD2
structural_interaction_variant	NCAPD2
structural_interaction_variant	GAPDH
structural_interaction_variant	GAPDH
structural_interaction_variant	IFFO1
structural_interaction_variant	IFFO1
structural_interaction_variant	NOP2
structural_interaction_variant	NOP2
structural_interaction_variant	NOP2
structural_interaction_variant	CHD4
structural_interaction_variant	CHD4
structural_interaction_variant	CHD4
structural_interaction_variant	CHD4
structural_interaction_variant	ACRBP
structural_interaction_variant	ING4
structural_interaction_variant	ZNF384
structural_interaction_variant	PIANP
structural_interaction_variant	MLF2
missense_variant&splice_region_variant	MLF2
structural_interaction_variant	MLF2
structural_interaction_variant	LAG3
structural_interaction_variant	LAG3
structural_interaction_variant	LAG3
structural_interaction_variant	LAG3
structural_interaction_variant	CD4
frameshift_variant&stop_gained	CD4
frameshift_variant	GPR162
structural_interaction_variant	LEPREL2

structural_interaction_variant	LEPREL2
structural_interaction_variant	LEPREL2
structural_interaction_variant	GNB3
frameshift_variant	GNB3
structural_interaction_variant	GNB3
structural_interaction_variant	GNB3
structural_interaction_variant	USP5
structural_interaction_variant	USP5
structural_interaction_variant	LRRC23
structural_interaction_variant	LRRC23
structural_interaction_variant	ENO2
structural_interaction_variant	ENO2
structural_interaction_variant	ATN1
structural_interaction_variant	ATN1
structural_interaction_variant	ATN1
structural_interaction_variant	ATN1
structural_interaction_variant	ATN1
structural_interaction_variant	ATN1
structural_interaction_variant	C12orf57
structural_interaction_variant	PTPN6
structural_interaction_variant	PTPN6
structural_interaction_variant	PTPN6
structural_interaction_variant	PHB2
structural_interaction_variant	PHB2
structural_interaction_variant	PHB2
structural_interaction_variant	EMG1
stop_lost	EMG1
structural_interaction_variant	LPCAT3
structural_interaction_variant	C1S
structural_interaction_variant	C1S
structural_interaction_variant	RBP5
structural_interaction_variant	CLSTN3
structural_interaction_variant	CLSTN3
structural_interaction_variant	CLSTN3
structural_interaction_variant	PEX5
structural_interaction_variant	ACSM4
structural_interaction_variant	ACSM4
structural_interaction_variant	ACSM4
structural_interaction_variant	ACSM4
frameshift_variant	ACSM4
structural_interaction_variant	ACSM4
structural_interaction_variant	ACSM4
structural_interaction_variant	CD163L1
structural_interaction_variant	CD163L1
frameshift_variant	CD163L1
structural_interaction_variant	CD163L1
structural_interaction_variant	CD163
structural_interaction_variant	CLEC4C

structural_interaction_variant	CLEC4C
structural_interaction_variant	CLEC4C
structural_interaction_variant	NANOGNB
structural_interaction_variant	NANOGNB
structural_interaction_variant	NANOGNB
structural_interaction_variant	NANOGNB
stop_gained	NANOGNB
structural_interaction_variant	FOXJ2
structural_interaction_variant	FOXJ2
stop_gained	C3AR1
structural_interaction_variant	C3AR1
structural_interaction_variant	C3AR1
structural_interaction_variant	C3AR1
structural_interaction_variant	NECAP1
splice_donor_variant&intron_variant	CLEC6A
structural_interaction_variant	CLEC4D
structural_interaction_variant	CLEC4E
structural_interaction_variant	RIMKLB
structural_interaction_variant	RIMKLB
structural_interaction_variant	A2ML1
frameshift_variant	A2ML1
missense_variant&splice_region_variant	PHC1
structural_interaction_variant	PHC1
structural_interaction_variant	A2M
structural_interaction_variant	A2M
structural_interaction_variant	A2M
structural_interaction_variant	A2M
structural_interaction_variant	PZP
structural_interaction_variant	PZP
structural_interaction_variant	PZP
structural_interaction_variant	PZP
structural_interaction_variant	PZP
structural_interaction_variant	PZP
structural_interaction_variant	PZP
splice_donor_variant&intron_variant	PZP
structural_interaction_variant	PZP
structural_interaction_variant	PZP
structural_interaction_variant	PZP
structural_interaction_variant	PZP
structural_interaction_variant	PZP
structural_interaction_variant	KLRB1
missense_variant&splice_region_variant	KLRB1
structural_interaction_variant	CLEC2D
structural_interaction_variant	CLEC2D
structural_interaction_variant	CLECL1
structural_interaction_variant	CD69
structural_interaction_variant	CD69
missense_variant&splice_region_variant	KLRF1

structural_interaction_variant	CLEC2B
stop_gained	CLEC1B
structural_interaction_variant	CLEC1B
structural_interaction_variant	CLEC7A
conservative_inframe_deletion	CLEC7A
structural_interaction_variant	OLR1
structural_interaction_variant	TMEM52B
structural_interaction_variant	TMEM52B
structural_interaction_variant	KLRD1
structural_interaction_variant	KLRK1
stop_gained	KLRK1
structural_interaction_variant	KLRC4
structural_interaction_variant	KLRC1
structural_interaction_variant	EIF2S3L
structural_interaction_variant	MAGOHB
structural_interaction_variant	MAGOHB
stop_gained	STYK1
structural_interaction_variant	STYK1
structural_interaction_variant	STYK1
stop_gained	STYK1
structural_interaction_variant	STYK1
structural_interaction_variant	TAS2R7
stop_gained	TAS2R7
structural_interaction_variant	TAS2R7
structural_interaction_variant	TAS2R7
structural_interaction_variant	TAS2R8
stop_gained	TAS2R9
structural_interaction_variant	TAS2R9
structural_interaction_variant	TAS2R10
structural_interaction_variant	TAS2R10
frameshift_variant	PRR4
structural_interaction_variant	TAS2R14
stop_gained	TAS2R14
structural_interaction_variant	TAS2R50
structural_interaction_variant	TAS2R50
structural_interaction_variant	TAS2R20
frameshift_variant	TAS2R31
structural_interaction_variant	TAS2R31
structural_interaction_variant	TAS2R31
structural_interaction_variant	TAS2R30
frameshift_variant	TAS2R42
structural_interaction_variant	PRB3
stop_gained	PRB3
structural_interaction_variant	ETV6
structural_interaction_variant	LRP6
structural_interaction_variant	MANSC1
structural_interaction_variant	DUSP16
structural_interaction_variant	DUSP16

structural_interaction_variant	CREBL2
structural_interaction_variant	CREBL2
structural_interaction_variant	CREBL2
structural_interaction_variant	GPR19
structural_interaction_variant	GPR19
structural_interaction_variant	GPR19
structural_interaction_variant	CDKN1B
structural_interaction_variant	DDX47
structural_interaction_variant	DDX47
structural_interaction_variant	GPRC5A
structural_interaction_variant	GPRC5A
structural_interaction_variant	GPRC5A
structural_interaction_variant	GPRC5A
structural_interaction_variant	GPRC5A
structural_interaction_variant	HEBP1
splice_acceptor_variant&intron_variant	KIAA1467
structural_interaction_variant	KIAA1467
structural_interaction_variant	GSG1
missense_variant&splice_region_variant	EMP1
structural_interaction_variant	ATF7IP
structural_interaction_variant	ATF7IP
structural_interaction_variant	ATF7IP
structural_interaction_variant	ATF7IP
structural_interaction_variant	PLBD1
frameshift_variant	PLBD1
structural_interaction_variant	PLBD1
missense_variant&splice_region_variant	GUCY2C
structural_interaction_variant	GUCY2C
structural_interaction_variant	GUCY2C
stop_gained&splice_region_variant	GUCY2C
structural_interaction_variant	ART4
structural_interaction_variant	ART4
structural_interaction_variant	ART4
structural_interaction_variant	ART4
structural_interaction_variant	ERP27
structural_interaction_variant	ERP27
splice_acceptor_variant&intron_variant	ERP27
structural_interaction_variant	ARHGDIB
structural_interaction_variant	PDE6H
structural_interaction_variant	RERG
structural_interaction_variant	PTPRO
structural_interaction_variant	EPS8
structural_interaction_variant	DERA
structural_interaction_variant	DERA
structural_interaction_variant	DERA
structural_interaction_variant	DERA
structural_interaction_variant	SLC15A5
structural_interaction_variant	MGST1

structural_interaction_variant	RERGL
structural_interaction_variant	RERGL
structural_interaction_variant	PIK3C2G
stop_gained	PIK3C2G
structural_interaction_variant	PIK3C2G
structural_interaction_variant	PIK3C2G
frameshift_variant	PIK3C2G
structural_interaction_variant	PIK3C2G
frameshift_variant	PIK3C2G
structural_interaction_variant	PIK3C2G
structural_interaction_variant	PIK3C2G
structural_interaction_variant	PLCZ1
structural_interaction_variant	PLCZ1
missense_variant&splice_region_variant	PLCZ1
structural_interaction_variant	PLEKHA5
structural_interaction_variant	PLEKHA5
structural_interaction_variant	PLEKHA5
structural_interaction_variant	PLEKHA5
structural_interaction_variant	AEBP2
structural_interaction_variant	PDE3A
structural_interaction_variant	PDE3A
structural_interaction_variant	PDE3A
stop_gained	SLCO1C1
frameshift_variant	SLCO1C1
structural_interaction_variant	SLCO1C1
structural_interaction_variant	SLCO1B3
structural_interaction_variant	SLCO1B3
structural_interaction_variant	SLCO1B3
structural_interaction_variant	SLCO1B7
structural_interaction_variant	LST3
structural_interaction_variant	LST3
structural_interaction_variant	LST3
stop_gained	LST3
structural_interaction_variant	SLCO1A2
structural_interaction_variant	SLCO1A2
structural_interaction_variant	SLCO1A2
splice_acceptor_variant&intron_variant	SLCO1A2
structural_interaction_variant	SLCO1A2
structural_interaction_variant	IAPP
stop_gained	RECQL
stop_gained	RECQL
structural_interaction_variant	GOLT1B
missense_variant&splice_region_variant	C12orf39
structural_interaction_variant	GYS2
frameshift_variant	GYS2
structural_interaction_variant	KCNJ8
structural_interaction_variant	KCNJ8
stop_gained	ABCC9

structural_interaction_variant	ABCC9
missense_variant&splice_region_variant	CMAS
structural_interaction_variant	C2CD5
missense_variant&splice_region_variant	C2CD5
structural_interaction_variant	C2CD5
structural_interaction_variant	ETNK1
stop_gained	SOX5
structural_interaction_variant	BCAT1
structural_interaction_variant	C12orf77
structural_interaction_variant	C12orf77
structural_interaction_variant	LRMP
structural_interaction_variant	LRMP
structural_interaction_variant	LRMP
disruptive_inframe_deletion	LRMP
structural_interaction_variant	LRMP
missense_variant&splice_region_variant	CASC1
structural_interaction_variant	CASC1
structural_interaction_variant	CASC1
structural_interaction_variant	CASC1
missense_variant&splice_region_variant	CASC1
structural_interaction_variant	RASSF8
structural_interaction_variant	RASSF8
structural_interaction_variant	RASSF8
structural_interaction_variant	RASSF8
structural_interaction_variant	RASSF8
structural_interaction_variant	ITPR2
structural_interaction_variant	ITPR2
missense_variant&splice_region_variant	ITPR2
structural_interaction_variant	ITPR2
structural_interaction_variant	ITPR2
structural_interaction_variant	ITPR2
structural_interaction_variant	ITPR2
structural_interaction_variant	ITPR2
structural_interaction_variant	ITPR2
structural_interaction_variant	ASUN
structural_interaction_variant	ASUN
structural_interaction_variant	ASUN
structural_interaction_variant	ASUN
structural_interaction_variant	ASUN
structural_interaction_variant	ASUN
structural_interaction_variant	ASUN
structural_interaction_variant	ASUN
structural_interaction_variant	TM7SF3
structural_interaction_variant	TM7SF3
structural_interaction_variant	C12orf71
structural_interaction_variant	ARNTL2
structural_interaction_variant	ARNTL2
stop_gained	SMCO2

structural_interaction_variant	PPFIBP1
structural_interaction_variant	PPFIBP1
structural_interaction_variant	KLHL42
structural_interaction_variant	CCDC91
structural_interaction_variant	CCDC91
structural_interaction_variant	CCDC91
structural_interaction_variant	ERGIC2
structural_interaction_variant	ERGIC2
structural_interaction_variant	OVCH1
structural_interaction_variant	OVCH1
structural_interaction_variant	OVCH1
frameshift_variant	OVCH1
splice_donor_variant&intron_variant	OVCH1
structural_interaction_variant	TMTC1
structural_interaction_variant	TMTC1
structural_interaction_variant	TMTC1
structural_interaction_variant	TMTC1
frameshift_variant	IPO8
structural_interaction_variant	IPO8
missense_variant&splice_region_variant	IPO8
structural_interaction_variant	IPO8
structural_interaction_variant	IPO8
structural_interaction_variant	CAPRIN2
structural_interaction_variant	CAPRIN2
structural_interaction_variant	CAPRIN2
structural_interaction_variant	CAPRIN2
structural_interaction_variant	CAPRIN2
structural_interaction_variant	CAPRIN2
structural_interaction_variant	CAPRIN2
structural_interaction_variant	DENND5B
structural_interaction_variant	DENND5B
structural_interaction_variant	AMN1
structural_interaction_variant	AMN1
structural_interaction_variant	KIAA1551
structural_interaction_variant	KIAA1551
structural_interaction_variant	KIAA1551
structural_interaction_variant	KIAA1551
disruptive_inframe_deletion	KIAA1551
structural_interaction_variant	KIAA1551
structural_interaction_variant	KIAA1551
structural_interaction_variant	KIAA1551
structural_interaction_variant	KIAA1551
structural_interaction_variant	BICD1
structural_interaction_variant	BICD1
structural_interaction_variant	BICD1
structural_interaction_variant	PKP2
structural_interaction_variant	PKP2
structural_interaction_variant	SYT10

stop_gained	SYT10
structural_interaction_variant	SYT10
structural_interaction_variant	ALG10
frameshift_variant	ALG10B
structural_interaction_variant	ALG10B
structural_interaction_variant	CPNE8
stop_gained	CPNE8
structural_interaction_variant	CPNE8
stop_gained	KIF21A
structural_interaction_variant	KIF21A
structural_interaction_variant	KIF21A
structural_interaction_variant	KIF21A
structural_interaction_variant	KIF21A
structural_interaction_variant	KIF21A
structural_interaction_variant	KIF21A
structural_interaction_variant	ABCD2
structural_interaction_variant	ABCD2
stop_gained	C12orf40
structural_interaction_variant	SLC2A13
structural_interaction_variant	LRRK2
structural_interaction_variant	LRRK2
structural_interaction_variant	LRRK2
structural_interaction_variant	LRRK2
structural_interaction_variant	LRRK2
structural_interaction_variant	LRRK2
structural_interaction_variant	LRRK2
structural_interaction_variant	LRRK2
structural_interaction_variant	LRRK2
stop_gained	LRRK2
frameshift_variant	LRRK2
frameshift_variant	LRRK2
structural_interaction_variant	LRRK2
structural_interaction_variant	LRRK2
structural_interaction_variant	LRRK2
structural_interaction_variant	MUC19
structural_interaction_variant	MUC19
structural_interaction_variant	MUC19
structural_interaction_variant	MUC19
structural_interaction_variant	MUC19
frameshift_variant	MUC19
structural_interaction_variant	MUC19
structural_interaction_variant	MUC19
splice_acceptor_variant&splice_region_variant&intr	MUC19
structural_interaction_variant	CNTN1
structural_interaction_variant	CNTN1
structural_interaction_variant	PDZRN4
structural_interaction_variant	PDZRN4
structural_interaction_variant	PDZRN4

structural_interaction_variant	PDZRN4
structural_interaction_variant	PDZRN4
structural_interaction_variant	PDZRN4
structural_interaction_variant	PDZRN4
structural_interaction_variant	ZCRB1
structural_interaction_variant	PRICKLE1
structural_interaction_variant	ADAMTS20
structural_interaction_variant	ADAMTS20
structural_interaction_variant	ADAMTS20
structural_interaction_variant	ADAMTS20
structural_interaction_variant	ADAMTS20
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structural_interaction_variant	ADAMTS20
structural_interaction_variant	ADAMTS20
structural_interaction_variant	PUS7L
structural_interaction_variant	PUS7L
structural_interaction_variant	TMEM117
structural_interaction_variant	NELL2
structural_interaction_variant	NELL2
structural_interaction_variant	NELL2
structural_interaction_variant	NELL2
stop_gained	ANO6
frameshift_variant	ARID2
structural_interaction_variant	ARID2
structural_interaction_variant	SCAF11
structural_interaction_variant	SCAF11
structural_interaction_variant	SCAF11
structural_interaction_variant	SCAF11
structural_interaction_variant	SLC38A1
structural_interaction_variant	SLC38A1
missense_variant&splice_region_variant	SLC38A1
structural_interaction_variant	SLC38A1
structural_interaction_variant	SLC38A1
start_lost	SLC38A1
structural_interaction_variant	SLC38A2
structural_interaction_variant	SLC38A2
structural_interaction_variant	SLC38A4
missense_variant&splice_region_variant	SLC38A4
structural_interaction_variant	AMIGO2
structural_interaction_variant	AMIGO2
structural_interaction_variant	AMIGO2
structural_interaction_variant	RPAP3

structural_interaction_variant	RPAP3
structural_interaction_variant	RAPGEF3
structural_interaction_variant	RAPGEF3
structural_interaction_variant	HDAC7
structural_interaction_variant	HDAC7
structural_interaction_variant	HDAC7
structural_interaction_variant	HDAC7
structural_interaction_variant	PFKM
structural_interaction_variant	PFKM
frameshift_variant	PFKM
structural_interaction_variant	ASB8
structural_interaction_variant	ASB8
frameshift_variant	ASB8
structural_interaction_variant	C12orf68
structural_interaction_variant	C12orf68
frameshift_variant	ANP32D
structural_interaction_variant	ANP32D
stop_gained	C12orf54
structural_interaction_variant	OR8S1
structural_interaction_variant	OR8S1
structural_interaction_variant	OR8S1
structural_interaction_variant	OR8S1
structural_interaction_variant	OR8S1
structural_interaction_variant	KANSL2
structural_interaction_variant	KANSL2
structural_interaction_variant	CCNT1
stop_gained	CCNT1
structural_interaction_variant	CCNT1
structural_interaction_variant	ADCY6
missense_variant&splice_region_variant	ADCY6
structural_interaction_variant	CACNB3
structural_interaction_variant	CACNB3
structural_interaction_variant	DDX23
structural_interaction_variant	RND1
structural_interaction_variant	CCDC65
splice_acceptor_variant&intron_variant	ARF3
structural_interaction_variant	WNT1
structural_interaction_variant	DDN
structural_interaction_variant	DDN
structural_interaction_variant	DDN
stop_gained	KMT2D
structural_interaction_variant	LMBR1L
splice_donor_variant&intron_variant	LMBR1L
frameshift_variant	PRPH
structural_interaction_variant	TROAP
structural_interaction_variant	TROAP
structural_interaction_variant	TROAP
structural_interaction_variant	TROAP

structural_interaction_variant	TROAP
structural_interaction_variant	TROAP
structural_interaction_variant	TROAP
stop_gained	TROAP
structural_interaction_variant	TROAP
structural_interaction_variant	TROAP
structural_interaction_variant	TROAP
structural_interaction_variant	DNAJC22
structural_interaction_variant	DNAJC22
stop_gained	DNAJC22
missense_variant&splice_region_variant	SPATS2
structural_interaction_variant	SPATS2
structural_interaction_variant	SPATS2
structural_interaction_variant	SPATS2
structural_interaction_variant	SPATS2
structural_interaction_variant	KCNH3
structural_interaction_variant	KCNH3
structural_interaction_variant	MCRS1
structural_interaction_variant	MCRS1
structural_interaction_variant	MCRS1
structural_interaction_variant	MCRS1
structural_interaction_variant	FAM186B
structural_interaction_variant	FAM186B
structural_interaction_variant	FAM186B
structural_interaction_variant	FAM186B
structural_interaction_variant	FAM186B
disruptive_inframe_deletion	PRPF40B
structural_interaction_variant	PRPF40B
disruptive_inframe_deletion	PRPF40B
structural_interaction_variant	PRPF40B
structural_interaction_variant	PRPF40B
structural_interaction_variant	PRPF40B
structural_interaction_variant	PRPF40B
structural_interaction_variant	PRPF40B
structural_interaction_variant	FMNL3
missense_variant&splice_region_variant	TMBIM6
structural_interaction_variant	TMBIM6
structural_interaction_variant	NCKAP5L
structural_interaction_variant	NCKAP5L
structural_interaction_variant	NCKAP5L
structural_interaction_variant	NCKAP5L
structural_interaction_variant	AQP2
structural_interaction_variant	AQP5
structural_interaction_variant	AQP5
structural_interaction_variant	RACGAP1
structural_interaction_variant	ASIC1
structural_interaction_variant	ASIC1
structural_interaction_variant	ASIC1

structural_interaction_variant	ASIC1
structural_interaction_variant	ASIC1
structural_interaction_variant	ASIC1
structural_interaction_variant	SMARCD1
structural_interaction_variant	COX14
structural_interaction_variant	LIMA1
structural_interaction_variant	LIMA1
missense_variant&splice_region_variant	LIMA1
structural_interaction_variant	LIMA1
structural_interaction_variant	LARP4
missense_variant&splice_region_variant	DIP2B
structural_interaction_variant	DIP2B
structural_interaction_variant	DIP2B
structural_interaction_variant	TMPRSS12
structural_interaction_variant	TMPRSS12
structural_interaction_variant	TMPRSS12
structural_interaction_variant	METTL7A
structural_interaction_variant	SLC11A2
structural_interaction_variant	LETMD1
structural_interaction_variant	CSRNP2
frameshift_variant	CELA1
structural_interaction_variant	CELA1
structural_interaction_variant	CELA1
structural_interaction_variant	GALNT6
structural_interaction_variant	GALNT6
structural_interaction_variant	GALNT6
structural_interaction_variant	GALNT6
structural_interaction_variant	SLC4A8
structural_interaction_variant	SLC4A8
structural_interaction_variant	SLC4A8
stop_gained	SLC4A8
structural_interaction_variant	SCN8A
structural_interaction_variant	ANKRD33
structural_interaction_variant	ANKRD33
structural_interaction_variant	ANKRD33
structural_interaction_variant	NR4A1
structural_interaction_variant	KRT80
structural_interaction_variant	KRT7
structural_interaction_variant	KRT7
stop_gained	KRT7
structural_interaction_variant	KRT7
structural_interaction_variant	KRT86
missense_variant&splice_region_variant	KRT83
structural_interaction_variant	KRT84
structural_interaction_variant	KRT84
structural_interaction_variant	KRT84
structural_interaction_variant	KRT82
structural_interaction_variant	KRT82

structural_interaction_variant	KRT82
structural_interaction_variant	KRT75
structural_interaction_variant	KRT75
structural_interaction_variant	KRT75
structural_interaction_variant	KRT6A
structural_interaction_variant	KRT71
structural_interaction_variant	KRT71
structural_interaction_variant	KRT71
structural_interaction_variant	KRT71
structural_interaction_variant	KRT74
structural_interaction_variant	KRT74
stop_gained	KRT74
structural_interaction_variant	KRT72
structural_interaction_variant	KRT72
structural_interaction_variant	KRT73
structural_interaction_variant	KRT73
structural_interaction_variant	KRT2
structural_interaction_variant	KRT1
structural_interaction_variant	KRT1
structural_interaction_variant	KRT77
structural_interaction_variant	KRT77
structural_interaction_variant	KRT77
splice_donor_variant&intron_variant	KRT76
structural_interaction_variant	KRT76
structural_interaction_variant	KRT76
stop_gained	KRT76
structural_interaction_variant	KRT76
structural_interaction_variant	KRT3
missense_variant&splice_region_variant	KRT3
structural_interaction_variant	KRT3
structural_interaction_variant	KRT3
structural_interaction_variant	KRT4
structural_interaction_variant	KRT4
structural_interaction_variant	KRT4
splice_acceptor_variant&intron_variant	KRT4
structural_interaction_variant	KRT4
structural_interaction_variant	KRT4
stop_gained	KRT79
structural_interaction_variant	KRT79
structural_interaction_variant	KRT78
structural_interaction_variant	KRT78
structural_interaction_variant	KRT78
structural_interaction_variant	KRT78
structural_interaction_variant	KRT8
structural_interaction_variant	KRT8
structural_interaction_variant	KRT8
structural_interaction_variant	TENC1
structural_interaction_variant	TENC1

structural_interaction_variant	TENC1
structural_interaction_variant	TENC1
structural_interaction_variant	TENC1
structural_interaction_variant	TENC1
splice_acceptor_variant&intron_variant	TENC1
structural_interaction_variant	TENC1
structural_interaction_variant	TENC1
frameshift_variant	TENC1
structural_interaction_variant	SOAT2
structural_interaction_variant	CSAD
stop_gained	CSAD
structural_interaction_variant	CSAD
structural_interaction_variant	CSAD
structural_interaction_variant	ITGB7
structural_interaction_variant	ITGB7
structural_interaction_variant	ITGB7
structural_interaction_variant	ITGB7
frameshift_variant	ITGB7
structural_interaction_variant	ITGB7
structural_interaction_variant	ITGB7
structural_interaction_variant	ITGB7
structural_interaction_variant	RARG
structural_interaction_variant	MFSD5
structural_interaction_variant	MFSD5
structural_interaction_variant	MFSD5
structural_interaction_variant	MFSD5
structural_interaction_variant	MFSD5
structural_interaction_variant	MFSD5
structural_interaction_variant	MFSD5
structural_interaction_variant	ESPL1
structural_interaction_variant	ESPL1
structural_interaction_variant	ESPL1
structural_interaction_variant	ESPL1
structural_interaction_variant	ESPL1
structural_interaction_variant	ESPL1
structural_interaction_variant	ESPL1
structural_interaction_variant	ESPL1
structural_interaction_variant	PFDN5
structural_interaction_variant	C12orf10
structural_interaction_variant	AAAS
structural_interaction_variant	AAAS
frameshift_variant&splice_region_variant	AAAS
structural_interaction_variant	SP7
structural_interaction_variant	SP7
structural_interaction_variant	SP7
structural_interaction_variant	SP7
structural_interaction_variant	MAP3K12
structural_interaction_variant	MAP3K12

structural_interaction_variant	MAP3K12
missense_variant&splice_region_variant	TARBP2
frameshift_variant	CALCOCO1
structural_interaction_variant	CALCOCO1
splice_acceptor_variant&intron_variant	CALCOCO1
stop_gained	CALCOCO1
structural_interaction_variant	CALCOCO1
structural_interaction_variant	CALCOCO1
structural_interaction_variant	CALCOCO1
structural_interaction_variant	CALCOCO1
structural_interaction_variant	HOXC12
structural_interaction_variant	HOXC11
structural_interaction_variant	HOXC11
structural_interaction_variant	HOXC10
structural_interaction_variant	HOXC10
structural_interaction_variant	HOXC10
structural_interaction_variant	HOXC10
structural_interaction_variant	HOXC10
structural_interaction_variant	HOXC9
conservative_inframe_deletion	HOXC6
structural_interaction_variant	HOXC6
structural_interaction_variant	HOXC6
structural_interaction_variant	HOXC6
frameshift_variant	HOXC6
structural_interaction_variant	HOXC5
structural_interaction_variant	HOXC5
structural_interaction_variant	NFE2
structural_interaction_variant	GPR84
structural_interaction_variant	GPR84
structural_interaction_variant	ZNF385A
structural_interaction_variant	ZNF385A
structural_interaction_variant	ITGA5
structural_interaction_variant	ITGA5
structural_interaction_variant	ITGA5
structural_interaction_variant	ITGA5
structural_interaction_variant	ITGA5
structural_interaction_variant	ITGA5
structural_interaction_variant	ITGA5
structural_interaction_variant	ITGA5
structural_interaction_variant	ITGA5
structural_interaction_variant	NCKAP1L
structural_interaction_variant	NCKAP1L
stop_gained	NCKAP1L
structural_interaction_variant	NCKAP1L
structural_interaction_variant	PDE1B
structural_interaction_variant	PDE1B
splice_acceptor_variant&intron_variant	DCD
structural_interaction_variant	TESPA1

structural_interaction_variant	TESPA1
structural_interaction_variant	TESPA1
structural_interaction_variant	NEUROD4
structural_interaction_variant	NEUROD4
structural_interaction_variant	OR9K2
structural_interaction_variant	OR9K2
structural_interaction_variant	OR10A7
structural_interaction_variant	OR10A7
structural_interaction_variant	OR6C6
structural_interaction_variant	OR6C6
structural_interaction_variant	OR6C3
stop_gained	OR6C3
structural_interaction_variant	OR6C75
structural_interaction_variant	OR6C75
stop_gained	OR6C75
structural_interaction_variant	OR6C75
frameshift_variant	OR6C65
structural_interaction_variant	OR6C65
splice_acceptor_variant&intron_variant	PHC1P1
stop_gained	OR6C76
structural_interaction_variant	OR6C76
structural_interaction_variant	OR6C2
structural_interaction_variant	OR6C2
structural_interaction_variant	OR6C70
structural_interaction_variant	OR6C70
structural_interaction_variant	OR6C70
structural_interaction_variant	OR6C4
structural_interaction_variant	OR2AP1
structural_interaction_variant	OR2AP1
structural_interaction_variant	OR2AP1
structural_interaction_variant	OR10P1
structural_interaction_variant	METTL7B
structural_interaction_variant	ITGA7
structural_interaction_variant	RDH5
stop_gained	RDH5
structural_interaction_variant	CD63
structural_interaction_variant	GDF11
structural_interaction_variant	SARNP
structural_interaction_variant	SARNP
structural_interaction_variant	DNAJC14
frameshift_variant	MMP19
structural_interaction_variant	MMP19
structural_interaction_variant	DGKA
structural_interaction_variant	DGKA
structural_interaction_variant	PMEL
structural_interaction_variant	CDK2
structural_interaction_variant	CDK2
structural_interaction_variant	RAB5B

structural_interaction_variant	SUOX
structural_interaction_variant	ERBB3
structural_interaction_variant	ERBB3
structural_interaction_variant	ERBB3
structural_interaction_variant	ERBB3
structural_interaction_variant	ERBB3
structural_interaction_variant	ERBB3
structural_interaction_variant	ERBB3
structural_interaction_variant	PA2G4
structural_interaction_variant	ESYT1
structural_interaction_variant	ESYT1
missense_variant&splice_region_variant	ESYT1
structural_interaction_variant	ESYT1
structural_interaction_variant	MYL6B
structural_interaction_variant	MYL6B
structural_interaction_variant	MYL6
structural_interaction_variant	SMARCC2
structural_interaction_variant	RNF41
structural_interaction_variant	RNF41
structural_interaction_variant	RNF41
structural_interaction_variant	NABP2
structural_interaction_variant	SLC39A5
structural_interaction_variant	ANKRD52
structural_interaction_variant	ANKRD52
structural_interaction_variant	ANKRD52
structural_interaction_variant	ANKRD52
structural_interaction_variant	COQ10A
missense_variant&splice_region_variant	RP11-977G19.10
structural_interaction_variant	CNPY2
structural_interaction_variant	PAN2
structural_interaction_variant	PAN2
structural_interaction_variant	PAN2
structural_interaction_variant	PAN2
structural_interaction_variant	IL23A
stop_gained	STAT2
structural_interaction_variant	APOF
frameshift_variant	TIMELESS
structural_interaction_variant	SPRYD4
structural_interaction_variant	SPRYD4
structural_interaction_variant	GLS2
structural_interaction_variant	BAZ2A
structural_interaction_variant	BAZ2A
structural_interaction_variant	BAZ2A
structural_interaction_variant	BAZ2A
structural_interaction_variant	BAZ2A
structural_interaction_variant	BAZ2A
missense_variant&splice_region_variant	BAZ2A
structural_interaction_variant	BAZ2A

frameshift_variant	BAZ2A
structural_interaction_variant	BAZ2A
structural_interaction_variant	BAZ2A
structural_interaction_variant	BAZ2A
structural_interaction_variant	NACA
structural_interaction_variant	NACA
structural_interaction_variant	NACA
splice_donor_variant&intron_variant	HSD17B6
structural_interaction_variant	HSD17B6
structural_interaction_variant	RDH16
structural_interaction_variant	RDH16
structural_interaction_variant	RDH16
structural_interaction_variant	GPR182
structural_interaction_variant	GPR182
structural_interaction_variant	GPR182
structural_interaction_variant	GPR182
structural_interaction_variant	ZBTB39
structural_interaction_variant	ZBTB39
structural_interaction_variant	ZBTB39
structural_interaction_variant	ZBTB39
structural_interaction_variant	ZBTB39
structural_interaction_variant	ZBTB39
structural_interaction_variant	ZBTB39
structural_interaction_variant	MYO1A
splice_donor_variant&splice_region_variant&intron_	MYO1A
frameshift_variant&splice_region_variant	MYO1A
structural_interaction_variant	MYO1A
structural_interaction_variant	MYO1A
structural_interaction_variant	TMEM194A
structural_interaction_variant	NAB2
structural_interaction_variant	STAT6
structural_interaction_variant	STAT6
structural_interaction_variant	LRP1
structural_interaction_variant	LRP1
structural_interaction_variant	LRP1
structural_interaction_variant	LRP1
structural_interaction_variant	LRP1
structural_interaction_variant	LRP1
structural_interaction_variant	LRP1
structural_interaction_variant	LRP1
structural_interaction_variant	LRP1
structural_interaction_variant	LRP1
structural_interaction_variant	NXPH4
structural_interaction_variant	NXPH4
structural_interaction_variant	NDUFA4L2
structural_interaction_variant	STAC3
structural_interaction_variant	STAC3
structural_interaction_variant	STAC3

structural_interaction_variant	R3HDM2
structural_interaction_variant	INHBC
structural_interaction_variant	INHBC
structural_interaction_variant	INHBC
structural_interaction_variant	INHBE
frameshift_variant	INHBE
structural_interaction_variant	INHBE
structural_interaction_variant	GLI1
structural_interaction_variant	ARHGAP9
structural_interaction_variant	MARS
structural_interaction_variant	MARS
stop_gained	DDIT3
structural_interaction_variant	MBD6
structural_interaction_variant	MBD6
structural_interaction_variant	DCTN2
structural_interaction_variant	DCTN2
structural_interaction_variant	DCTN2
structural_interaction_variant	KIF5A
structural_interaction_variant	KIF5A
structural_interaction_variant	PIP4K2C
structural_interaction_variant	DTX3
structural_interaction_variant	DTX3
structural_interaction_variant	DTX3
missense_variant&splice_region_variant	ARHGEF25
structural_interaction_variant	ARHGEF25
stop_gained	ARHGEF25
structural_interaction_variant	SLC26A10
structural_interaction_variant	B4GALNT1
structural_interaction_variant	B4GALNT1
frameshift_variant	B4GALNT1
structural_interaction_variant	OS9
stop_gained	OS9
structural_interaction_variant	OS9
structural_interaction_variant	OS9
structural_interaction_variant	AGAP2
structural_interaction_variant	AGAP2-AS1
structural_interaction_variant	AGAP2-AS1
structural_interaction_variant	AGAP2
structural_interaction_variant	TSPAN31
structural_interaction_variant	TSPAN31
structural_interaction_variant	CYP27B1
structural_interaction_variant	TSFM
structural_interaction_variant	TSFM
structural_interaction_variant	AVIL
structural_interaction_variant	CTDSP2
structural_interaction_variant	CTDSP2
structural_interaction_variant	LRIG3
structural_interaction_variant	LRIG3

structural_interaction_variant	LRIG3
structural_interaction_variant	LRIG3
structural_interaction_variant	SLC16A7
structural_interaction_variant	FAM19A2
structural_interaction_variant	FAM19A2
structural_interaction_variant	MON2
structural_interaction_variant	MON2
structural_interaction_variant	MON2
structural_interaction_variant	MON2
structural_interaction_variant	MON2
structural_interaction_variant	MON2
structural_interaction_variant	MON2
structural_interaction_variant	MON2
structural_interaction_variant	MON2
structural_interaction_variant	MON2
structural_interaction_variant	MON2
structural_interaction_variant	PPM1H
structural_interaction_variant	AVPR1A
frameshift_variant	TMEM5
structural_interaction_variant	TMEM5
structural_interaction_variant	TMEM5
structural_interaction_variant	SRGAP1
splice_acceptor_variant&intron_variant	C12orf56
structural_interaction_variant	C12orf56
structural_interaction_variant	C12orf56
structural_interaction_variant	C12orf56
structural_interaction_variant	TBK1
structural_interaction_variant	RASSF3
structural_interaction_variant	RASSF3
structural_interaction_variant	RASSF3
structural_interaction_variant	TBC1D30
structural_interaction_variant	TBC1D30
structural_interaction_variant	WIF1
structural_interaction_variant	WIF1
structural_interaction_variant	MSRB3
structural_interaction_variant	MSRB3
structural_interaction_variant	IRAK3
structural_interaction_variant	IRAK3
structural_interaction_variant	IRAK3
structural_interaction_variant	IRAK3
structural_interaction_variant	HELB
stop_gained	HELB
structural_interaction_variant	HELB
structural_interaction_variant	HELB
structural_interaction_variant	HELB
stop_gained	HELB
structural_interaction_variant	HELB
structural_interaction_variant	CAND1
structural_interaction_variant	DYRK2

frameshift_variant	IFNG
structural_interaction_variant	IL22
structural_interaction_variant	IL22
structural_interaction_variant	MDM1
structural_interaction_variant	MDM1
structural_interaction_variant	MDM1
structural_interaction_variant	MDM1
structural_interaction_variant	MDM1
structural_interaction_variant	SLC35E3
structural_interaction_variant	SLC35E3
structural_interaction_variant	MDM2
structural_interaction_variant	MDM2
structural_interaction_variant	MDM2
structural_interaction_variant	CPSF6
structural_interaction_variant	CPSF6
structural_interaction_variant	LYZ
structural_interaction_variant	YEATS4
structural_interaction_variant	FRS2
structural_interaction_variant	FRS2
structural_interaction_variant	LRRC10
structural_interaction_variant	BEST3
structural_interaction_variant	BEST3
structural_interaction_variant	BEST3
structural_interaction_variant	BEST3
structural_interaction_variant	RAB3IP
frameshift_variant	MYRFL
structural_interaction_variant	MYRFL
structural_interaction_variant	KCNMB4
structural_interaction_variant	PTPRB
structural_interaction_variant	PTPRB
structural_interaction_variant	PTPRB
structural_interaction_variant	PTPRB
structural_interaction_variant	PTPRB
structural_interaction_variant	PTPRB
structural_interaction_variant	PTPRB
structural_interaction_variant	PTPRR
structural_interaction_variant	PTPRR
structural_interaction_variant	PTPRR
missense_variant&splice_region_variant	TSPAN8
structural_interaction_variant	LGR5
structural_interaction_variant	LGR5
structural_interaction_variant	ZFC3H1
structural_interaction_variant	ZFC3H1
structural_interaction_variant	ZFC3H1
structural_interaction_variant	ZFC3H1
structural_interaction_variant	ZFC3H1
structural_interaction_variant	THAP2
missense_variant&splice_region_variant	RAB21

structural_interaction_variant	TBC1D15
structural_interaction_variant	TBC1D15
structural_interaction_variant	TPH2
structural_interaction_variant	TPH2
stop_gained	TRHDE
structural_interaction_variant	TRHDE
structural_interaction_variant	TRHDE
structural_interaction_variant	TRHDE
structural_interaction_variant	CAPS2
frameshift_variant	GLIPR1L2
structural_interaction_variant	GLIPR1L2
structural_interaction_variant	GLIPR1
structural_interaction_variant	GLIPR1
structural_interaction_variant	GLIPR1
structural_interaction_variant	PHLDA1
structural_interaction_variant	PHLDA1
structural_interaction_variant	CSRP2
structural_interaction_variant	CSRP2
structural_interaction_variant	CSRP2
structural_interaction_variant	E2F7
structural_interaction_variant	E2F7
structural_interaction_variant	E2F7
structural_interaction_variant	E2F7
structural_interaction_variant	NAV3
structural_interaction_variant	NAV3
structural_interaction_variant	NAV3
frameshift_variant&stop_gained	NAV3
structural_interaction_variant	NAV3
structural_interaction_variant	NAV3
structural_interaction_variant	NAV3
structural_interaction_variant	NAV3
structural_interaction_variant	NAV3
structural_interaction_variant	NAV3
structural_interaction_variant	NAV3
structural_interaction_variant	SYT1
structural_interaction_variant	SYT1
structural_interaction_variant	PAWR
structural_interaction_variant	PPP1R12A
splice_acceptor_variant&intron_variant	PPP1R12A
structural_interaction_variant	PPP1R12A
structural_interaction_variant	PPP1R12A
structural_interaction_variant	PPP1R12A
structural_interaction_variant	PPP1R12A
structural_interaction_variant	MYF5
structural_interaction_variant	MYF5
structural_interaction_variant	PPFIA2
structural_interaction_variant	PPFIA2
structural_interaction_variant	PPFIA2

structural_interaction_variant	CCDC59
structural_interaction_variant	CCDC59
stop_gained	CCDC59
stop_gained	CCDC59
structural_interaction_variant	METTL25
frameshift_variant	METTL25
structural_interaction_variant	TMTC2
structural_interaction_variant	SLC6A15
structural_interaction_variant	SLC6A15
structural_interaction_variant	SLC6A15
stop_gained	LRRIQ1
structural_interaction_variant	LRRIQ1
stop_gained	LRRIQ1
structural_interaction_variant	LRRIQ1
structural_interaction_variant	LRRIQ1
splice_acceptor_variant&intron_variant	LRRIQ1
structural_interaction_variant	LRRIQ1
structural_interaction_variant	ALX1
structural_interaction_variant	ALX1
structural_interaction_variant	ALX1
structural_interaction_variant	ALX1
structural_interaction_variant	RASSF9
structural_interaction_variant	RASSF9
structural_interaction_variant	RASSF9
stop_gained&splice_region_variant	C12orf29
structural_interaction_variant	CEP290
stop_gained	CEP290
missense_variant&splice_region_variant	KITLG
splice_acceptor_variant&intron_variant	KITLG
structural_interaction_variant	DUSP6
structural_interaction_variant	DUSP6
structural_interaction_variant	DUSP6
structural_interaction_variant	POC1B-GALNT4
structural_interaction_variant	POC1B-GALNT4
structural_interaction_variant	POC1B-GALNT4
structural_interaction_variant	POC1B-GALNT4
structural_interaction_variant	POC1B-GALNT4
structural_interaction_variant	ATP2B1
structural_interaction_variant	ATP2B1
structural_interaction_variant	CCER1
structural_interaction_variant	EPYC
structural_interaction_variant	EPYC
structural_interaction_variant	EPYC
structural_interaction_variant	LUM
stop_gained	DCN
structural_interaction_variant	CLLU1OS
disruptive_inframe_deletion	CLLU1OS
splice_acceptor_variant&intron_variant	CLLU1OS

stop_gained	PLEKHG7
stop_gained	PLEKHG7
structural_interaction_variant	EEA1
structural_interaction_variant	EEA1
structural_interaction_variant	EEA1
structural_interaction_variant	EEA1
structural_interaction_variant	EEA1
structural_interaction_variant	EEA1
structural_interaction_variant	EEA1
structural_interaction_variant	EEA1
structural_interaction_variant	NUDT4
structural_interaction_variant	NUDT4
structural_interaction_variant	CRADD
structural_interaction_variant	CRADD
structural_interaction_variant	PLXNC1
structural_interaction_variant	PLXNC1
structural_interaction_variant	PLXNC1
frameshift_variant	PLXNC1
structural_interaction_variant	CCDC41
splice_donor_variant&intron_variant	CCDC41
splice_donor_variant&intron_variant	CCDC41
structural_interaction_variant	CCDC41
structural_interaction_variant	TMCC3
structural_interaction_variant	TMCC3
structural_interaction_variant	NR2C1
structural_interaction_variant	NR2C1
structural_interaction_variant	NR2C1
structural_interaction_variant	NR2C1
structural_interaction_variant	NR2C1
structural_interaction_variant	NR2C1
structural_interaction_variant	FGD6
missense_variant&splice_region_variant	FGD6
structural_interaction_variant	FGD6
structural_interaction_variant	FGD6
structural_interaction_variant	FGD6
disruptive_inframe_deletion	FGD6
structural_interaction_variant	VEZT
frameshift_variant&stop_lost	VEZT
structural_interaction_variant	METAP2
structural_interaction_variant	USP44
stop_gained	USP44
structural_interaction_variant	USP44
frameshift_variant	USP44
structural_interaction_variant	NTN4
structural_interaction_variant	NTN4
structural_interaction_variant	NTN4
frameshift_variant	CCDC38
structural_interaction_variant	CCDC38

splice_donor_variant&intron_variant	CCDC38
structural_interaction_variant	CCDC38
structural_interaction_variant	CCDC38
structural_interaction_variant	AMDHD1
structural_interaction_variant	LTA4H
structural_interaction_variant	LTA4H
structural_interaction_variant	ELK3
structural_interaction_variant	ELK3
structural_interaction_variant	ELK3
structural_interaction_variant	C12orf55
splice_donor_variant&intron_variant	C12orf55
stop_gained	C12orf55
structural_interaction_variant	C12orf55
structural_interaction_variant	C12orf55
structural_interaction_variant	C12orf55
missense_variant&splice_region_variant	C12orf55
structural_interaction_variant	C12orf55
structural_interaction_variant	NEDD1
structural_interaction_variant	NEDD1
structural_interaction_variant	NEDD1
structural_interaction_variant	TMPO
structural_interaction_variant	TMPO
structural_interaction_variant	TMPO
structural_interaction_variant	TMPO
structural_interaction_variant	TMPO
structural_interaction_variant	TMPO
structural_interaction_variant	SLC25A3
structural_interaction_variant	IKBIP
frameshift_variant	IKBIP
structural_interaction_variant	IKBIP
stop_gained	IKBIP
structural_interaction_variant	APAF1
structural_interaction_variant	APAF1
structural_interaction_variant	APAF1
structural_interaction_variant	APAF1
structural_interaction_variant	APAF1
structural_interaction_variant	APAF1
splice_acceptor_variant&intron_variant	APAF1
structural_interaction_variant	APAF1
structural_interaction_variant	ANKS1B
structural_interaction_variant	ANKS1B
structural_interaction_variant	ANKS1B
structural_interaction_variant	ANKS1B
structural_interaction_variant	ANKS1B
structural_interaction_variant	ANKS1B
structural_interaction_variant	ANKS1B
structural_interaction_variant	FAM71C
structural_interaction_variant	FAM71C

structural_interaction_variant	FAM71C
structural_interaction_variant	ANKS1B
structural_interaction_variant	ANKS1B
structural_interaction_variant	UHRF1BP1L
structural_interaction_variant	UHRF1BP1L
structural_interaction_variant	UHRF1BP1L
structural_interaction_variant	UHRF1BP1L
structural_interaction_variant	UHRF1BP1L
stop_gained	ACTR6
structural_interaction_variant	DEPDC4
stop_gained	SCYL2
structural_interaction_variant	SCYL2
structural_interaction_variant	NR1H4
structural_interaction_variant	NR1H4
structural_interaction_variant	NR1H4
structural_interaction_variant	GAS2L3
structural_interaction_variant	GAS2L3
structural_interaction_variant	GAS2L3
structural_interaction_variant	GAS2L3
stop_gained	GAS2L3
structural_interaction_variant	GAS2L3
structural_interaction_variant	ANO4
structural_interaction_variant	ANO4
structural_interaction_variant	ANO4
structural_interaction_variant	ANO4
structural_interaction_variant	SLC5A8
structural_interaction_variant	SLC5A8
structural_interaction_variant	SLC5A8
structural_interaction_variant	UTP20
missense_variant&splice_region_variant	UTP20
structural_interaction_variant	UTP20
structural_interaction_variant	UTP20
structural_interaction_variant	UTP20
structural_interaction_variant	UTP20
structural_interaction_variant	UTP20
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structural_interaction_variant	UTP20
structural_interaction_variant	UTP20

structural_interaction_variant	UTP20
missense_variant&splice_region_variant	UTP20
structural_interaction_variant	ARL1
stop_gained	CHPT1
stop_gained	CHPT1
structural_interaction_variant	CHPT1
stop_gained&splice_region_variant	GNPTAB
stop_gained	GNPTAB
structural_interaction_variant	GNPTAB
structural_interaction_variant	CCDC53
splice_acceptor_variant&intron_variant	NUP37
splice_acceptor_variant&intron_variant	NUP37
structural_interaction_variant	PARPBP
structural_interaction_variant	PARPBP
stop_gained	PARPBP
structural_interaction_variant	PARPBP
structural_interaction_variant	PAH
structural_interaction_variant	PAH
stop_gained	STAB2
structural_interaction_variant	STAB2
structural_interaction_variant	STAB2
stop_gained	STAB2
structural_interaction_variant	STAB2
structural_interaction_variant	STAB2
structural_interaction_variant	STAB2
structural_interaction_variant	STAB2
structural_interaction_variant	STAB2
structural_interaction_variant	STAB2
stop_gained	STAB2
structural_interaction_variant	STAB2
structural_interaction_variant	STAB2
structural_interaction_variant	STAB2
structural_interaction_variant	STAB2
frameshift_variant	STAB2
frameshift_variant	STAB2
structural_interaction_variant	HSP90B1
structural_interaction_variant	HSP90B1
frameshift_variant	TDG
structural_interaction_variant	GLT8D2
structural_interaction_variant	EID3
frameshift_variant	EID3
structural_interaction_variant	EID3
structural_interaction_variant	EID3
structural_interaction_variant	TXNRD1
disruptive_inframe_deletion	TXNRD1
structural_interaction_variant	SLC41A2
stop_gained	SLC41A2
structural_interaction_variant	C12orf45

splice_donor_variant&3_prime_UTR_variant&intron	ALDH1L2
structural_interaction_variant	ALDH1L2
structural_interaction_variant	ALDH1L2
structural_interaction_variant	ALDH1L2
structural_interaction_variant	ALDH1L2
structural_interaction_variant	ALDH1L2
structural_interaction_variant	KIAA1033
frameshift_variant	APPL2
structural_interaction_variant	NUAK1
structural_interaction_variant	NUAK1
structural_interaction_variant	CKAP4
structural_interaction_variant	CKAP4
structural_interaction_variant	CKAP4
structural_interaction_variant	TCP11L2
structural_interaction_variant	TCP11L2
structural_interaction_variant	POLR3B
missense_variant&splice_region_variant	POLR3B
structural_interaction_variant	POLR3B
structural_interaction_variant	RFX4
structural_interaction_variant	RFX4
structural_interaction_variant	RIC8B
missense_variant&splice_region_variant	RIC8B
stop_gained	RIC8B
structural_interaction_variant	CRY1
structural_interaction_variant	CRY1
structural_interaction_variant	CRY1
structural_interaction_variant	BTBD11
structural_interaction_variant	BTBD11
structural_interaction_variant	BTBD11
structural_interaction_variant	BTBD11
structural_interaction_variant	BTBD11
missense_variant&splice_region_variant	PWP1
structural_interaction_variant	PWP1
stop_gained	PWP1
structural_interaction_variant	PWP1
missense_variant&splice_region_variant	PRDM4
structural_interaction_variant	PRDM4
structural_interaction_variant	PRDM4
structural_interaction_variant	PRDM4
structural_interaction_variant	PRDM4
splice_acceptor_variant&intron_variant	PRDM4
structural_interaction_variant	WSCD2
structural_interaction_variant	WSCD2
structural_interaction_variant	WSCD2
structural_interaction_variant	CMKLR1
structural_interaction_variant	CMKLR1
structural_interaction_variant	CMKLR1
structural_interaction_variant	SART3

structural_interaction_variant	TMEM119
structural_interaction_variant	TMEM119
structural_interaction_variant	TMEM119
structural_interaction_variant	SELPLG
structural_interaction_variant	CORO1C
structural_interaction_variant	SSH1
structural_interaction_variant	SSH1
structural_interaction_variant	SSH1
structural_interaction_variant	SSH1
structural_interaction_variant	SSH1
structural_interaction_variant	SSH1
structural_interaction_variant	USP30
missense_variant&splice_region_variant	USP30
structural_interaction_variant	ALKBH2
structural_interaction_variant	ACACB
structural_interaction_variant	ACACB
structural_interaction_variant	ACACB
structural_interaction_variant	ACACB
structural_interaction_variant	ACACB
structural_interaction_variant	ACACB
structural_interaction_variant	ACACB
structural_interaction_variant	ACACB
structural_interaction_variant	ACACB
structural_interaction_variant	ACACB
stop_gained	ACACB
structural_interaction_variant	ACACB
structural_interaction_variant	ACACB
structural_interaction_variant	ACACB
structural_interaction_variant	ACACB
structural_interaction_variant	ACACB
structural_interaction_variant	ACACB
frameshift_variant	ACACB
structural_interaction_variant	ACACB
structural_interaction_variant	ACACB
structural_interaction_variant	ACACB
structural_interaction_variant	ACACB
structural_interaction_variant	MYO1H
structural_interaction_variant	MYO1H
structural_interaction_variant	MYO1H
structural_interaction_variant	MYO1H
frameshift_variant	MYO1H
structural_interaction_variant	KCTD10
structural_interaction_variant	KCTD10
structural_interaction_variant	UBE3B
structural_interaction_variant	UBE3B
structural_interaction_variant	UBE3B
structural_interaction_variant	FAM222A
structural_interaction_variant	TRPV4

structural_interaction_variant	TRPV4
structural_interaction_variant	TRPV4
structural_interaction_variant	GLTP
missense_variant&splice_region_variant	TCHP
structural_interaction_variant	GIT2
structural_interaction_variant	GIT2
structural_interaction_variant	GIT2
structural_interaction_variant	ANKRD13A
structural_interaction_variant	ANKRD13A
structural_interaction_variant	ANKRD13A
structural_interaction_variant	ATP2A2
structural_interaction_variant	ANAPC7
structural_interaction_variant	ANAPC7
structural_interaction_variant	ANAPC7
frameshift_variant	ANAPC7
structural_interaction_variant	ANAPC7
structural_interaction_variant	ANAPC7
structural_interaction_variant	GPN3
structural_interaction_variant	FAM216A
structural_interaction_variant	FAM216A
structural_interaction_variant	FAM216A
structural_interaction_variant	VPS29
stop_gained	RAD9B
structural_interaction_variant	PPTC7
structural_interaction_variant	TCTN1
structural_interaction_variant	HVCN1
structural_interaction_variant	PPP1CC
structural_interaction_variant	MYL2
structural_interaction_variant	MYL2
structural_interaction_variant	CUX2
structural_interaction_variant	CUX2
structural_interaction_variant	CUX2
structural_interaction_variant	CUX2
missense_variant&splice_region_variant	CUX2
structural_interaction_variant	CUX2
structural_interaction_variant	CUX2
structural_interaction_variant	FAM109A
structural_interaction_variant	FAM109A
structural_interaction_variant	SH2B3
structural_interaction_variant	SH2B3
missense_variant&splice_region_variant	SH2B3
structural_interaction_variant	SH2B3
structural_interaction_variant	ATXN2
structural_interaction_variant	ATXN2
structural_interaction_variant	BRAP
frameshift_variant	ACAD10
stop_gained	ACAD10
structural_interaction_variant	ACAD10

structural_interaction_variant	ACAD10
structural_interaction_variant	ACAD10
structural_interaction_variant	ACAD10
stop_gained	ACAD10
structural_interaction_variant	ACAD10
structural_interaction_variant	ACAD10
structural_interaction_variant	ACAD10
structural_interaction_variant	ALDH2
structural_interaction_variant	ALDH2
structural_interaction_variant	ALDH2
structural_interaction_variant	MAPKAPK5
structural_interaction_variant	TMEM116
structural_interaction_variant	TMEM116
structural_interaction_variant	NAA25
structural_interaction_variant	NAA25
structural_interaction_variant	NAA25
structural_interaction_variant	HECTD4
structural_interaction_variant	HECTD4
structural_interaction_variant	HECTD4
structural_interaction_variant	HECTD4
structural_interaction_variant	HECTD4
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structural_interaction_variant	HECTD4
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structural_interaction_variant	HECTD4
structural_interaction_variant	HECTD4
structural_interaction_variant	HECTD4
structural_interaction_variant	HECTD4
missense_variant&splice_region_variant	HECTD4
structural_interaction_variant	HECTD4
structural_interaction_variant	RPH3A
structural_interaction_variant	RPH3A
structural_interaction_variant	RPH3A
structural_interaction_variant	RPH3A
structural_interaction_variant	OAS1
stop_gained	OAS1
structural_interaction_variant	OAS3
structural_interaction_variant	OAS3
structural_interaction_variant	OAS3
structural_interaction_variant	OAS2
structural_interaction_variant	OAS2
structural_interaction_variant	DTX1

structural_interaction_variant	DTX1
structural_interaction_variant	RASAL1
structural_interaction_variant	RASAL1
structural_interaction_variant	RASAL1
structural_interaction_variant	RASAL1
structural_interaction_variant	DDX54
structural_interaction_variant	DDX54
structural_interaction_variant	DDX54
structural_interaction_variant	DDX54
structural_interaction_variant	DDX54
missense_variant&splice_region_variant	DDX54
frameshift_variant	RITA1
structural_interaction_variant	IQCD
structural_interaction_variant	IQCD
structural_interaction_variant	IQCD
structural_interaction_variant	TPCN1
frameshift_variant	TPCN1
structural_interaction_variant	TPCN1
stop_gained	TPCN1
splice_donor_variant&intron_variant	SLC8B1
structural_interaction_variant	SLC8B1
structural_interaction_variant	SLC8B1
structural_interaction_variant	SLC8B1
structural_interaction_variant	SLC8B1
stop_gained	SLC8B1
structural_interaction_variant	SLC8B1
structural_interaction_variant	SLC8B1
frameshift_variant	SLC8B1
structural_interaction_variant	PLBD2
structural_interaction_variant	SDS
structural_interaction_variant	SDS
structural_interaction_variant	SDS
structural_interaction_variant	LHX5
structural_interaction_variant	RBM19
structural_interaction_variant	RBM19
structural_interaction_variant	RBM19
structural_interaction_variant	RBM19
structural_interaction_variant	RBM19
structural_interaction_variant	RBM19
structural_interaction_variant	RBM19
structural_interaction_variant	RNFT2
structural_interaction_variant	FBXW8
structural_interaction_variant	FBXW8
structural_interaction_variant	FBXW8
frameshift_variant	FBXW8
structural_interaction_variant	FBXO21
structural_interaction_variant	FBXO21
structural_interaction_variant	NOS1

structural_interaction_variant	NOS1
structural_interaction_variant	NOS1
structural_interaction_variant	NOS1
structural_interaction_variant	RFC5
structural_interaction_variant	WSB2
structural_interaction_variant	WSB2
stop_gained	VSIG10
splice_acceptor_variant&intron_variant	VSIG10
structural_interaction_variant	TAOK3
structural_interaction_variant	SRRM4
structural_interaction_variant	SRRM4
structural_interaction_variant	SRRM4
structural_interaction_variant	SRRM4
structural_interaction_variant	CCDC60
structural_interaction_variant	CCDC60
splice_donor_variant&intron_variant	CCDC60
structural_interaction_variant	CCDC60
structural_interaction_variant	CIT
structural_interaction_variant	CIT
structural_interaction_variant	CIT
structural_interaction_variant	CCDC64
structural_interaction_variant	CCDC64
structural_interaction_variant	CCDC64
structural_interaction_variant	RAB35
structural_interaction_variant	GCN1L1
structural_interaction_variant	GCN1L1
structural_interaction_variant	GCN1L1
structural_interaction_variant	GCN1L1
missense_variant&splice_region_variant	GCN1L1
structural_interaction_variant	GCN1L1
structural_interaction_variant	PXN
structural_interaction_variant	PXN
structural_interaction_variant	SIRT4
structural_interaction_variant	PLA2G1B
structural_interaction_variant	PLA2G1B
structural_interaction_variant	PLA2G1B
structural_interaction_variant	MSI1
structural_interaction_variant	TRIAP1
structural_interaction_variant	SRSF9
structural_interaction_variant	DYNLL1
structural_interaction_variant	COQ5
structural_interaction_variant	RNF10
structural_interaction_variant	RNF10
stop_gained	RNF10
structural_interaction_variant	RNF10
structural_interaction_variant	RNF10
disruptive_inframe_deletion	CABP1
structural_interaction_variant	UNC119B

structural_interaction_variant	UNC119B
structural_interaction_variant	UNC119B
structural_interaction_variant	HNF1A
structural_interaction_variant	OASL
frameshift_variant	OASL
structural_interaction_variant	OASL
structural_interaction_variant	OASL
splice_donor_variant&intron_variant	P2RX7
structural_interaction_variant	P2RX7
structural_interaction_variant	P2RX7
structural_interaction_variant	P2RX4
structural_interaction_variant	P2RX4
structural_interaction_variant	P2RX4
stop_gained	CAMKK2
structural_interaction_variant	ANAPC5
structural_interaction_variant	ANAPC5
structural_interaction_variant	RNF34
structural_interaction_variant	RNF34
structural_interaction_variant	RNF34
structural_interaction_variant	RNF34
structural_interaction_variant	RNF34
structural_interaction_variant	KDM2B
structural_interaction_variant	KDM2B
structural_interaction_variant	KDM2B
structural_interaction_variant	KDM2B
splice_donor_variant&intron_variant	MORN3
structural_interaction_variant	MORN3
structural_interaction_variant	TMEM120B
structural_interaction_variant	RHOF
structural_interaction_variant	RHOF
structural_interaction_variant	HPD
structural_interaction_variant	HPD
structural_interaction_variant	WDR66
structural_interaction_variant	WDR66
structural_interaction_variant	WDR66
stop_gained	WDR66
structural_interaction_variant	WDR66
structural_interaction_variant	WDR66
structural_interaction_variant	WDR66
structural_interaction_variant	WDR66
structural_interaction_variant	WDR66
structural_interaction_variant	WDR66
structural_interaction_variant	WDR66
structural_interaction_variant	WDR66
structural_interaction_variant	WDR66
structural_interaction_variant	BCL7A
structural_interaction_variant	BCL7A
structural_interaction_variant	MLXIP

structural_interaction_variant	MLXIP
structural_interaction_variant	IL31
structural_interaction_variant	LRRC43
structural_interaction_variant	LRRC43
frameshift_variant	B3GNT4
stop_gained	B3GNT4
stop_gained	B3GNT4
structural_interaction_variant	B3GNT4
splice_acceptor_variant&splice_region_variant&intr	CLIP1
structural_interaction_variant	CLIP1
structural_interaction_variant	ZCCHC8
structural_interaction_variant	KNTC1
structural_interaction_variant	KNTC1
structural_interaction_variant	KNTC1
structural_interaction_variant	KNTC1
structural_interaction_variant	KNTC1
conservative_inframe_deletion&splice_region_varian	KNTC1
structural_interaction_variant	KNTC1
structural_interaction_variant	KNTC1
structural_interaction_variant	KNTC1
structural_interaction_variant	KNTC1
frameshift_variant	KNTC1
structural_interaction_variant	KNTC1
structural_interaction_variant	KNTC1
structural_interaction_variant	KNTC1
structural_interaction_variant	KNTC1
structural_interaction_variant	KNTC1
structural_interaction_variant	KNTC1
structural_interaction_variant	HCAR2
structural_interaction_variant	HCAR2
structural_interaction_variant	HCAR1
structural_interaction_variant	HCAR1
stop_gained	HCAR1
structural_interaction_variant	CCDC62
structural_interaction_variant	CCDC62
structural_interaction_variant	CCDC62
structural_interaction_variant	CCDC62
stop_gained	CCDC62
structural_interaction_variant	CCDC62
structural_interaction_variant	HIP1R
structural_interaction_variant	HIP1R
frameshift_variant	HIP1R
structural_interaction_variant	HIP1R
structural_interaction_variant	HIP1R
structural_interaction_variant	VPS37B
frameshift_variant	ABCB9
stop_gained	ABCB9
missense_variant&splice_region_variant	OGFOD2

structural_interaction_variant	OGFOD2
structural_interaction_variant	ARL6IP4
structural_interaction_variant	ARL6IP4
structural_interaction_variant	PITPNM2
structural_interaction_variant	PITPNM2
conservative_inframe_deletion	MPHOSPH9
stop_gained	MPHOSPH9
structural_interaction_variant	MPHOSPH9
structural_interaction_variant	MPHOSPH9
structural_interaction_variant	MPHOSPH9
structural_interaction_variant	MPHOSPH9
structural_interaction_variant	MPHOSPH9
structural_interaction_variant	MPHOSPH9
structural_interaction_variant	SETD8
structural_interaction_variant	SETD8
frameshift_variant	SNRNP35
structural_interaction_variant	SNRNP35
structural_interaction_variant	SNRNP35
structural_interaction_variant	SNRNP35
stop_gained	SNRNP35
structural_interaction_variant	RILPL1
structural_interaction_variant	DDX55
structural_interaction_variant	DDX55
structural_interaction_variant	EIF2B1
splice_donor_variant&intron_variant	GTF2H3
splice_donor_variant&intron_variant	GTF2H3
structural_interaction_variant	TCTN2
stop_gained	TCTN2
structural_interaction_variant	ATP6V0A2
frameshift_variant	ATP6V0A2
structural_interaction_variant	DNAH10
structural_interaction_variant	DNAH10
structural_interaction_variant	DNAH10
structural_interaction_variant	DNAH10
structural_interaction_variant	DNAH10
splice_donor_variant&intron_variant	DNAH10
structural_interaction_variant	DNAH10
structural_interaction_variant	DNAH10
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structural_interaction_variant	DNAH10
structural_interaction_variant	DNAH10
stop_gained	DNAH10
structural_interaction_variant	DNAH10
structural_interaction_variant	DNAH10

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structural_interaction_variant	DNAH10
structural_interaction_variant	DNAH10
stop_gained	DNAH10
structural_interaction_variant	DNAH10
structural_interaction_variant	DNAH10
structural_interaction_variant	NCOR2
structural_interaction_variant	NCOR2
structural_interaction_variant	NCOR2
structural_interaction_variant	NCOR2
structural_interaction_variant	NCOR2
structural_interaction_variant	NCOR2
structural_interaction_variant	NCOR2
structural_interaction_variant	SCARB1
structural_interaction_variant	SCARB1
structural_interaction_variant	DHX37
structural_interaction_variant	DHX37
structural_interaction_variant	DHX37
missense_variant&splice_region_variant	DHX37
structural_interaction_variant	DHX37
structural_interaction_variant	DHX37
structural_interaction_variant	BRI3BP
structural_interaction_variant	AACS
structural_interaction_variant	AACS
structural_interaction_variant	AACS
structural_interaction_variant	AACS
structural_interaction_variant	AACS
structural_interaction_variant	TMEM132B
structural_interaction_variant	TMEM132B
structural_interaction_variant	TMEM132B
structural_interaction_variant	TMEM132B
structural_interaction_variant	TMEM132B
structural_interaction_variant	TMEM132B
structural_interaction_variant	TMEM132B
structural_interaction_variant	TMEM132B
structural_interaction_variant	TMEM132C
structural_interaction_variant	TMEM132C
structural_interaction_variant	SLC15A4
splice_acceptor_variant&intron_variant	SLC15A4
splice_acceptor_variant&intron_variant	GLT1D1
structural_interaction_variant	TMEM132D
structural_interaction_variant	TMEM132D
structural_interaction_variant	TMEM132D

structural_interaction_variant	FZD10
structural_interaction_variant	FZD10
structural_interaction_variant	PIWIL1
structural_interaction_variant	PIWIL1
structural_interaction_variant	PIWIL1
structural_interaction_variant	PIWIL1
structural_interaction_variant	PIWIL1
structural_interaction_variant	RIMBP2
structural_interaction_variant	RIMBP2
structural_interaction_variant	RIMBP2
structural_interaction_variant	RIMBP2
structural_interaction_variant	STX2
structural_interaction_variant	GPR133
structural_interaction_variant	GPR133
structural_interaction_variant	GPR133
structural_interaction_variant	GPR133
structural_interaction_variant	SFSWAP
structural_interaction_variant	MMP17
structural_interaction_variant	MMP17
structural_interaction_variant	ULK1
structural_interaction_variant	ULK1
structural_interaction_variant	ULK1
structural_interaction_variant	ULK1
structural_interaction_variant	ULK1
structural_interaction_variant	EP400
structural_interaction_variant	EP400
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structural_interaction_variant	EP400
structural_interaction_variant	EP400
frameshift_variant	EP400
frameshift_variant	EP400
structural_interaction_variant	EP400
structural_interaction_variant	GALNT9
structural_interaction_variant	FBRSL1
structural_interaction_variant	FBRSL1
structural_interaction_variant	FBRSL1
structural_interaction_variant	P2RX2
stop_gained	P2RX2
missense_variant&splice_region_variant	POLE
structural_interaction_variant	POLE
structural_interaction_variant	POLE
structural_interaction_variant	POLE
structural_interaction_variant	POLE

stop_gained	POLE
structural_interaction_variant	POLE
structural_interaction_variant	POLE
missense_variant&splice_region_variant	POLE
structural_interaction_variant	POLE
structural_interaction_variant	PXMP2
structural_interaction_variant	ANKLE2
structural_interaction_variant	ANKLE2
structural_interaction_variant	ANKLE2
structural_interaction_variant	ANKLE2
structural_interaction_variant	ANKLE2
structural_interaction_variant	ANKLE2
structural_interaction_variant	GOLGA3
structural_interaction_variant	GOLGA3
structural_interaction_variant	GOLGA3
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structural_interaction_variant	GOLGA3
structural_interaction_variant	GOLGA3
structural_interaction_variant	GOLGA3
structural_interaction_variant	GOLGA3
structural_interaction_variant	GOLGA3
missense_variant&splice_region_variant	GOLGA3
structural_interaction_variant	CHFR
structural_interaction_variant	ZNF605
structural_interaction_variant	ZNF605
structural_interaction_variant	ZNF605
structural_interaction_variant	ZNF140
structural_interaction_variant	ZNF891
structural_interaction_variant	ZNF268
structural_interaction_variant	ZNF10
structural_interaction_variant	ZNF10
structural_interaction_variant	ZNF10
structural_interaction_variant	ZNF268
structural_interaction_variant	ZNF268
frameshift_variant	ZNF268
structural_interaction_variant	ZNF268
structural_interaction_variant	ZNF268
structural_interaction_variant	MPHOSPH8
missense_variant&splice_region_variant	MPHOSPH8
structural_interaction_variant	PSPC1
structural_interaction_variant	PSPC1
structural_interaction_variant	ZMYM5
structural_interaction_variant	ZMYM5
structural_interaction_variant	ZMYM5
frameshift_variant	ZMYM5
structural_interaction_variant	ZMYM2
stop_gained	ZMYM2
missense_variant&splice_region_variant	ZMYM2

structural_interaction_variant	ZMYM2
structural_interaction_variant	ZMYM2
structural_interaction_variant	GJB2
structural_interaction_variant	GJB6
structural_interaction_variant	GJB6
structural_interaction_variant	CRYL1
structural_interaction_variant	XPO4
structural_interaction_variant	XPO4
structural_interaction_variant	XPO4
structural_interaction_variant	XPO4
structural_interaction_variant	LATS2
structural_interaction_variant	LATS2
structural_interaction_variant	LATS2
structural_interaction_variant	LATS2
structural_interaction_variant	SKA3
structural_interaction_variant	SKA3
structural_interaction_variant	MRP63
structural_interaction_variant	MRP63
structural_interaction_variant	ZDHHC20
structural_interaction_variant	MICU2
frameshift_variant	SGCG
frameshift_variant	SACS
structural_interaction_variant	TNFRSF19
structural_interaction_variant	SPATA13
structural_interaction_variant	SPATA13
structural_interaction_variant	SPATA13
stop_gained	PARP4
structural_interaction_variant	PARP4
structural_interaction_variant	PARP4
structural_interaction_variant	PARP4
structural_interaction_variant	ATP12A
structural_interaction_variant	ATP12A
structural_interaction_variant	ATP12A
structural_interaction_variant	ATP12A
structural_interaction_variant	RNF17
structural_interaction_variant	RNF17
structural_interaction_variant	RNF17
structural_interaction_variant	RNF17
structural_interaction_variant	RNF17
structural_interaction_variant	PABPC3
structural_interaction_variant	PABPC3
structural_interaction_variant	MTMR6
structural_interaction_variant	MTMR6
disruptive_inframe_deletion	NUPL1
structural_interaction_variant	NUPL1
structural_interaction_variant	ATP8A2
structural_interaction_variant	ATP8A2
structural_interaction_variant	SHISA2

structural_interaction_variant	SHISA2
missense_variant&splice_region_variant	WASF3
structural_interaction_variant	WASF3
structural_interaction_variant	GPR12
structural_interaction_variant	GPR12
structural_interaction_variant	GPR12
structural_interaction_variant	RASL11A
structural_interaction_variant	GTF3A
structural_interaction_variant	MTIF3
structural_interaction_variant	POLR1D
structural_interaction_variant	GSX1
structural_interaction_variant	PDX1
structural_interaction_variant	FLT3
structural_interaction_variant	FLT3
structural_interaction_variant	FLT3
structural_interaction_variant	FLT3
structural_interaction_variant	FLT3
structural_interaction_variant	FLT3
structural_interaction_variant	PAN3
structural_interaction_variant	PAN3
structural_interaction_variant	PAN3
structural_interaction_variant	FLT1
structural_interaction_variant	FLT1
structural_interaction_variant	FLT1
structural_interaction_variant	FLT1
structural_interaction_variant	FLT1
structural_interaction_variant	FLT1
structural_interaction_variant	SLC46A3
structural_interaction_variant	SLC46A3
structural_interaction_variant	SLC46A3
structural_interaction_variant	SLC46A3
structural_interaction_variant	MTUS2
structural_interaction_variant	MTUS2
structural_interaction_variant	MTUS2
structural_interaction_variant	MTUS2
structural_interaction_variant	MTUS2
structural_interaction_variant	SLC7A1
structural_interaction_variant	USPL1
structural_interaction_variant	USPL1
structural_interaction_variant	USPL1
structural_interaction_variant	USPL1
structural_interaction_variant	ALOX5AP
structural_interaction_variant	ALOX5AP
splice_donor_variant&intron_variant	ALOX5AP
structural_interaction_variant	TEX26
structural_interaction_variant	TEX26
structural_interaction_variant	HSPH1
structural_interaction_variant	HSPH1

structural_interaction_variant	HSPH1
structural_interaction_variant	HSPH1
structural_interaction_variant	B3GALTL
structural_interaction_variant	B3GALTL
structural_interaction_variant	B3GALTL
structural_interaction_variant	B3GALTL
splice_acceptor_variant&intron_variant	B3GALTL
structural_interaction_variant	RXFP2
structural_interaction_variant	RXFP2
frameshift_variant	RXFP2
structural_interaction_variant	RXFP2
structural_interaction_variant	RXFP2
stop_gained	FRY
structural_interaction_variant	FRY
structural_interaction_variant	FRY
stop_gained	BRCA2
frameshift_variant	BRCA2
structural_interaction_variant	BRCA2
structural_interaction_variant	BRCA2
structural_interaction_variant	BRCA2
structural_interaction_variant	BRCA2
structural_interaction_variant	BRCA2
structural_interaction_variant	BRCA2
structural_interaction_variant	N4BP2L2
structural_interaction_variant	N4BP2L2
structural_interaction_variant	N4BP2L2
structural_interaction_variant	N4BP2L2
structural_interaction_variant	PDS5B
structural_interaction_variant	PDS5B
structural_interaction_variant	KL
structural_interaction_variant	KL
structural_interaction_variant	KL
stop_gained	KL
structural_interaction_variant	KL
structural_interaction_variant	KL
structural_interaction_variant	STARD13
structural_interaction_variant	STARD13
structural_interaction_variant	STARD13
structural_interaction_variant	STARD13
structural_interaction_variant	DCLK1
structural_interaction_variant	SOHLH2
structural_interaction_variant	SOHLH2
structural_interaction_variant	SOHLH2
structural_interaction_variant	CCDC169
structural_interaction_variant	SPG20
structural_interaction_variant	SPG20
stop_gained	CCNA1
structural_interaction_variant	CCNA1

structural_interaction_variant	CCNA1
structural_interaction_variant	SMAD9
structural_interaction_variant	SMAD9
structural_interaction_variant	ALG5
structural_interaction_variant	EXOSC8
structural_interaction_variant	SUPT20H
splice_donor_variant&intron_variant	POSTN
structural_interaction_variant	POSTN
structural_interaction_variant	POSTN
structural_interaction_variant	POSTN
structural_interaction_variant	POSTN
structural_interaction_variant	POSTN
frameshift_variant	TRPC4
stop_gained	TRPC4
structural_interaction_variant	TRPC4
structural_interaction_variant	TRPC4
stop_gained	FREM2
structural_interaction_variant	FREM2
structural_interaction_variant	FREM2
structural_interaction_variant	STOML3
structural_interaction_variant	PROSER1
structural_interaction_variant	PROSER1
stop_gained	PROSER1
structural_interaction_variant	PROSER1
structural_interaction_variant	PROSER1
structural_interaction_variant	PROSER1
structural_interaction_variant	PROSER1
structural_interaction_variant	PROSER1
structural_interaction_variant	NHLRC3
structural_interaction_variant	NHLRC3
stop_gained	NHLRC3
structural_interaction_variant	FOXO1
structural_interaction_variant	FOXO1
structural_interaction_variant	MRPS31
missense_variant&splice_region_variant	ELF1
structural_interaction_variant	ELF1
structural_interaction_variant	WBP4
structural_interaction_variant	WBP4
structural_interaction_variant	WBP4
structural_interaction_variant	KBTBD6
frameshift_variant	KBTBD6
structural_interaction_variant	MTRF1
structural_interaction_variant	NAA16
structural_interaction_variant	NAA16
structural_interaction_variant	NAA16
structural_interaction_variant	NAA16
structural_interaction_variant	NAA16
structural_interaction_variant	VWA8

structural_interaction_variant	VWA8
structural_interaction_variant	VWA8
splice_donor_variant&intron_variant	VWA8
structural_interaction_variant	VWA8
structural_interaction_variant	DGKH
missense_variant&splice_region_variant	DGKH
structural_interaction_variant	DGKH
structural_interaction_variant	AKAP11
structural_interaction_variant	AKAP11
structural_interaction_variant	AKAP11
structural_interaction_variant	AKAP11
structural_interaction_variant	AKAP11
structural_interaction_variant	AKAP11
structural_interaction_variant	AKAP11
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structural_interaction_variant	AKAP11
structural_interaction_variant	AKAP11
structural_interaction_variant	AKAP11
structural_interaction_variant	AKAP11
structural_interaction_variant	AKAP11
structural_interaction_variant	FAM216B
missense_variant&splice_region_variant	EPSTI1
structural_interaction_variant	DNAJC15
structural_interaction_variant	DNAJC15
structural_interaction_variant	ENOX1
structural_interaction_variant	ENOX1
structural_interaction_variant	ENOX1
structural_interaction_variant	CCDC122
structural_interaction_variant	TSC22D1
structural_interaction_variant	TSC22D1
disruptive_inframe_deletion	TSC22D1
structural_interaction_variant	TSC22D1
structural_interaction_variant	TSC22D1
structural_interaction_variant	TSC22D1
structural_interaction_variant	NUFIP1
structural_interaction_variant	NUFIP1
structural_interaction_variant	NUFIP1
structural_interaction_variant	GPALPP1
structural_interaction_variant	GTF2F2
missense_variant&splice_region_variant	SLC25A30
splice_donor_variant&intron_variant	SLC25A30
structural_interaction_variant	COG3
structural_interaction_variant	COG3
missense_variant&splice_region_variant	COG3
structural_interaction_variant	COG3
structural_interaction_variant	COG3
structural_interaction_variant	COG3

structural_interaction_variant	SPERT
splice_acceptor_variant&intron_variant	SPERT
structural_interaction_variant	SPERT
structural_interaction_variant	SPERT
structural_interaction_variant	SPERT
structural_interaction_variant	SPERT
structural_interaction_variant	ZC3H13
structural_interaction_variant	ZC3H13
structural_interaction_variant	ZC3H13
structural_interaction_variant	ZC3H13
structural_interaction_variant	ZC3H13
structural_interaction_variant	ZC3H13
structural_interaction_variant	ZC3H13
structural_interaction_variant	ZC3H13
structural_interaction_variant	ZC3H13
structural_interaction_variant	CPB2
structural_interaction_variant	CPB2
structural_interaction_variant	CPB2
structural_interaction_variant	LCP1
stop_gained	LRRC63
structural_interaction_variant	KIAA0226L
structural_interaction_variant	LRCH1
structural_interaction_variant	LRCH1
structural_interaction_variant	HTR2A
structural_interaction_variant	SUCLA2
stop_gained	MED4
structural_interaction_variant	RB1
structural_interaction_variant	RCBTB2
structural_interaction_variant	RCBTB2
structural_interaction_variant	FNDC3A
structural_interaction_variant	FNDC3A
splice_acceptor_variant&intron_variant	FNDC3A
structural_interaction_variant	FNDC3A
structural_interaction_variant	MLNR
structural_interaction_variant	CDADC1
frameshift_variant	CDADC1
structural_interaction_variant	SETDB2
structural_interaction_variant	SETDB2
structural_interaction_variant	SETDB2
structural_interaction_variant	SETDB2
structural_interaction_variant	SETDB2
structural_interaction_variant	ARL11
conservative_inframe_deletion	ARL11
structural_interaction_variant	SPRYD7
structural_interaction_variant	KCNRG
structural_interaction_variant	DLEU7
structural_interaction_variant	FAM124A
structural_interaction_variant	FAM124A

frameshift_variant	FAM124A
structural_interaction_variant	SERPINE3
structural_interaction_variant	SERPINE3
missense_variant&splice_region_variant	INTS6
structural_interaction_variant	WDFY2
structural_interaction_variant	CCDC70
structural_interaction_variant	CCDC70
structural_interaction_variant	ATP7B
structural_interaction_variant	ATP7B
structural_interaction_variant	ATP7B
structural_interaction_variant	ATP7B
frameshift_variant	ATP7B
stop_gained&conservative_inframe_insertion	NEK5
stop_gained	NEK5
structural_interaction_variant	NEK5
structural_interaction_variant	NEK5
structural_interaction_variant	NEK3
structural_interaction_variant	NEK3
structural_interaction_variant	NEK3
structural_interaction_variant	THSD1
structural_interaction_variant	VPS36
structural_interaction_variant	VPS36
structural_interaction_variant	CKAP2
structural_interaction_variant	CKAP2
conservative_inframe_deletion	LECT1
structural_interaction_variant	LECT1
structural_interaction_variant	LECT1
structural_interaction_variant	PCDH8
structural_interaction_variant	PCDH8
structural_interaction_variant	OLFM4
structural_interaction_variant	OLFM4
frameshift_variant	OLFM4
structural_interaction_variant	OLFM4
structural_interaction_variant	OLFM4
structural_interaction_variant	OLFM4
structural_interaction_variant	PCDH17
structural_interaction_variant	PCDH17
structural_interaction_variant	PCDH17
structural_interaction_variant	PCDH17
structural_interaction_variant	PCDH17
structural_interaction_variant	PCDH17
structural_interaction_variant	PCDH17
structural_interaction_variant	PCDH17
structural_interaction_variant	PCDH17
structural_interaction_variant	PCDH17
structural_interaction_variant	PCDH17
structural_interaction_variant	PCDH17
structural_interaction_variant	PCDH17
frameshift_variant&stop_lost&splice_region_variant	DIAPH3

structural_interaction_variant	DIAPH3
missense_variant&splice_region_variant	DIAPH3
structural_interaction_variant	DIAPH3
structural_interaction_variant	DIAPH3
structural_interaction_variant	TDRD3
missense_variant&splice_region_variant	TDRD3
structural_interaction_variant	TDRD3
structural_interaction_variant	TDRD3
structural_interaction_variant	TDRD3
structural_interaction_variant	PCDH20
structural_interaction_variant	PCDH9
structural_interaction_variant	PCDH9
structural_interaction_variant	KLHL1
structural_interaction_variant	DACH1
structural_interaction_variant	DACH1
splice_donor_variant&intron_variant	BORA
structural_interaction_variant	BORA
structural_interaction_variant	BORA
structural_interaction_variant	DIS3
structural_interaction_variant	DIS3
structural_interaction_variant	DIS3
structural_interaction_variant	KLF5
structural_interaction_variant	KLF5
structural_interaction_variant	KLF5
structural_interaction_variant	KLF12
structural_interaction_variant	KLF12
structural_interaction_variant	KLF12
structural_interaction_variant	TBC1D4
structural_interaction_variant	TBC1D4
structural_interaction_variant	TBC1D4
structural_interaction_variant	TBC1D4
structural_interaction_variant	TBC1D4
structural_interaction_variant	TBC1D4
stop_gained	TBC1D4
structural_interaction_variant	COMMD6
structural_interaction_variant	COMMD6
frameshift_variant	UCHL3
splice_acceptor_variant&intron_variant	LMO7
stop_gained	LMO7
structural_interaction_variant	LMO7
structural_interaction_variant	C13orf45
structural_interaction_variant	C13orf45
structural_interaction_variant	IRG1
structural_interaction_variant	MYCBP2
missense_variant&splice_region_variant	MYCBP2
structural_interaction_variant	MYCBP2
structural_interaction_variant	MYCBP2
structural_interaction_variant	MYCBP2

structural_interaction_variant	MYCBP2
structural_interaction_variant	MYCBP2
structural_interaction_variant	MYCBP2
structural_interaction_variant	MYCBP2
structural_interaction_variant	MYCBP2
structural_interaction_variant	MYCBP2
structural_interaction_variant	MYCBP2
stop_gained	MYCBP2
structural_interaction_variant	MYCBP2
structural_interaction_variant	MYCBP2
structural_interaction_variant	MYCBP2
structural_interaction_variant	MYCBP2
structural_interaction_variant	MYCBP2
structural_interaction_variant	MYCBP2
structural_interaction_variant	MYCBP2
structural_interaction_variant	MYCBP2
structural_interaction_variant	SCEL
splice_donor_variant&intron_variant	SCEL
structural_interaction_variant	SCEL
structural_interaction_variant	SCEL
structural_interaction_variant	SLAIN1
structural_interaction_variant	RNF219
structural_interaction_variant	RNF219
structural_interaction_variant	RNF219
structural_interaction_variant	RNF219
structural_interaction_variant	RBM26
structural_interaction_variant	RBM26
structural_interaction_variant	RBM26
structural_interaction_variant	NDFIP2
structural_interaction_variant	SPRY2
structural_interaction_variant	SPRY2
structural_interaction_variant	SPRY2
structural_interaction_variant	SLITRK5
structural_interaction_variant	SLITRK5
structural_interaction_variant	GPC5
structural_interaction_variant	GPC5
structural_interaction_variant	GPC5
structural_interaction_variant	GPC6
structural_interaction_variant	GPC6
structural_interaction_variant	GPC6
structural_interaction_variant	DCT
structural_interaction_variant	DCT
stop_gained	DCT
structural_interaction_variant	DCT
structural_interaction_variant	DCT
structural_interaction_variant	DCT
structural_interaction_variant	DCT
structural_interaction_variant	TGDS

structural_interaction_variant	GPR180
structural_interaction_variant	SOX21
structural_interaction_variant	SOX21
structural_interaction_variant	SOX21
structural_interaction_variant	ABCC4
structural_interaction_variant	ABCC4
structural_interaction_variant	ABCC4
structural_interaction_variant	ABCC4
splice_donor_variant&intron_variant	ABCC4
structural_interaction_variant	ABCC4
structural_interaction_variant	ABCC4
structural_interaction_variant	ABCC4
structural_interaction_variant	CLDN10
missense_variant&splice_region_variant	DZIP1
structural_interaction_variant	DZIP1
structural_interaction_variant	DZIP1
splice_donor_variant&intron_variant	UGGT2
structural_interaction_variant	UGGT2
structural_interaction_variant	UGGT2
structural_interaction_variant	UGGT2
structural_interaction_variant	UGGT2
structural_interaction_variant	UGGT2
structural_interaction_variant	UGGT2
structural_interaction_variant	HS6ST3
structural_interaction_variant	HS6ST3
structural_interaction_variant	HS6ST3
structural_interaction_variant	MBNL2
structural_interaction_variant	RAP2A
structural_interaction_variant	IPO5
structural_interaction_variant	IPO5
structural_interaction_variant	RNF113B
structural_interaction_variant	FARP1
structural_interaction_variant	FARP1
structural_interaction_variant	FARP1
structural_interaction_variant	FARP1
structural_interaction_variant	FARP1
structural_interaction_variant	SLC15A1
structural_interaction_variant	SLC15A1
structural_interaction_variant	SLC15A1
structural_interaction_variant	SLC15A1
structural_interaction_variant	SLC15A1
structural_interaction_variant	DOCK9
structural_interaction_variant	DOCK9
structural_interaction_variant	DOCK9
structural_interaction_variant	DOCK9
missense_variant&splice_region_variant	DOCK9
structural_interaction_variant	DOCK9
structural_interaction_variant	DOCK9

structural_interaction_variant	TM9SF2
structural_interaction_variant	CLYBL
structural_interaction_variant	CLYBL
structural_interaction_variant	PCCA
structural_interaction_variant	TMTC4
structural_interaction_variant	TMTC4
structural_interaction_variant	TMTC4
stop_gained	TMTC4
structural_interaction_variant	TMTC4
structural_interaction_variant	TMTC4
structural_interaction_variant	NALCN
structural_interaction_variant	NALCN
structural_interaction_variant	NALCN
structural_interaction_variant	NALCN
missense_variant&splice_region_variant	ITGBL1
structural_interaction_variant	TPP2
structural_interaction_variant	METTL21C
structural_interaction_variant	METTL21C
structural_interaction_variant	METTL21C
structural_interaction_variant	METTL21C
structural_interaction_variant	METTL21C
structural_interaction_variant	METTL21C
structural_interaction_variant	CCDC168
structural_interaction_variant	CCDC168
structural_interaction_variant	CCDC168
missense_variant&splice_region_variant	TEX30
structural_interaction_variant	KDELC1
structural_interaction_variant	BIVM
structural_interaction_variant	BIVM
structural_interaction_variant	BIVM
structural_interaction_variant	SLC10A2
structural_interaction_variant	SLC10A2
structural_interaction_variant	EFNB2
structural_interaction_variant	EFNB2
structural_interaction_variant	ARGLU1
missense_variant&splice_region_variant	ARGLU1
structural_interaction_variant	FAM155A
frameshift_variant	FAM155A
frameshift_variant	FAM155A
structural_interaction_variant	FAM155A
structural_interaction_variant	LIG4
structural_interaction_variant	TNFSF13B
structural_interaction_variant	TNFSF13B
frameshift_variant	MYO16
structural_interaction_variant	MYO16
structural_interaction_variant	MYO16
structural_interaction_variant	MYO16
structural_interaction_variant	MYO16

structural_interaction_variant	MYO16
structural_interaction_variant	MYO16
structural_interaction_variant	MYO16
structural_interaction_variant	IRS2
structural_interaction_variant	COL4A1
frameshift_variant	COL4A2
frameshift_variant	COL4A2
structural_interaction_variant	COL4A2
structural_interaction_variant	RAB20
start_lost	RAB20
structural_interaction_variant	CARKD
structural_interaction_variant	CARS2
structural_interaction_variant	CARS2
structural_interaction_variant	CARS2
structural_interaction_variant	ING1
structural_interaction_variant	ANKRD10
structural_interaction_variant	ARHGEF7
structural_interaction_variant	SOX1
structural_interaction_variant	SPACA7
structural_interaction_variant	TUBGCP3
structural_interaction_variant	TUBGCP3
missense_variant&splice_region_variant	TUBGCP3
frameshift_variant	C13orf35
structural_interaction_variant	C13orf35
structural_interaction_variant	ATP11A
structural_interaction_variant	ATP11A
frameshift_variant	ATP11A
structural_interaction_variant	ATP11A
structural_interaction_variant	ATP11A
structural_interaction_variant	ATP11A
structural_interaction_variant	ATP11A
structural_interaction_variant	ATP11A
structural_interaction_variant	ATP11A
structural_interaction_variant	MCF2L
structural_interaction_variant	MCF2L
structural_interaction_variant	MCF2L
structural_interaction_variant	F7
structural_interaction_variant	F10
stop_gained	PROZ
structural_interaction_variant	PCID2
structural_interaction_variant	PCID2
structural_interaction_variant	CUL4A
structural_interaction_variant	LAMP1
structural_interaction_variant	GRTP1
frameshift_variant	ADPRHL1
stop_gained	ADPRHL1
missense_variant&splice_region_variant	DCUN1D2
structural_interaction_variant	DCUN1D2

structural_interaction_variant	DCUN1D2
frameshift_variant	DCUN1D2
structural_interaction_variant	TMCO3
frameshift_variant	TMCO3
splice_donor_variant&intron_variant	TMCO3
structural_interaction_variant	TMCO3
structural_interaction_variant	TMCO3
structural_interaction_variant	TFDP1
missense_variant&splice_region_variant	ATP4B
structural_interaction_variant	TMEM255B
structural_interaction_variant	GAS6
structural_interaction_variant	GAS6
structural_interaction_variant	GAS6
structural_interaction_variant	GAS6
structural_interaction_variant	GAS6
structural_interaction_variant	RASA3
structural_interaction_variant	CDC16
structural_interaction_variant	CDC16
structural_interaction_variant	CDC16
structural_interaction_variant	OR4Q3
structural_interaction_variant	OR4Q3
stop_gained	OR4Q3
structural_interaction_variant	OR4K2
structural_interaction_variant	OR4K5
structural_interaction_variant	OR4K14
start_lost	OR4K14
structural_interaction_variant	OR4K13
stop_gained	OR4K13
structural_interaction_variant	OR4K13
structural_interaction_variant	OR4L1
structural_interaction_variant	OR4K17
structural_interaction_variant	OR4K17
structural_interaction_variant	OR4N5
structural_interaction_variant	OR4N5
structural_interaction_variant	OR4N5
structural_interaction_variant	OR4N5
structural_interaction_variant	OR11G2
structural_interaction_variant	OR11G2
structural_interaction_variant	OR11H6
structural_interaction_variant	OR11H6
structural_interaction_variant	TTC5
structural_interaction_variant	TTC5
structural_interaction_variant	PARP2
structural_interaction_variant	PARP2
structural_interaction_variant	PARP2
structural_interaction_variant	PARP2
splice_donor_variant&intron_variant	TEP1
structural_interaction_variant	TEP1

structural_interaction_variant	TEP1
structural_interaction_variant	TEP1
stop_gained	TEP1
splice_acceptor_variant&intron_variant	TEP1
structural_interaction_variant	TEP1
structural_interaction_variant	TEP1
frameshift_variant	TEP1
structural_interaction_variant	KLHL33
structural_interaction_variant	KLHL33
structural_interaction_variant	KLHL33
structural_interaction_variant	KLHL33
structural_interaction_variant	KLHL33
missense_variant&splice_region_variant	OSGEP
structural_interaction_variant	APEX1
structural_interaction_variant	APEX1
structural_interaction_variant	APEX1
structural_interaction_variant	APEX1
structural_interaction_variant	TMEM55B
disruptive_inframe_deletion	RNASE10
structural_interaction_variant	RNASE9
structural_interaction_variant	RNASE9
structural_interaction_variant	RNASE9
structural_interaction_variant	RNASE11
structural_interaction_variant	RNASE11
frameshift_variant	RNASE11
structural_interaction_variant	OR6S1
structural_interaction_variant	OR6S1
frameshift_variant	OR6S1
structural_interaction_variant	ANG
structural_interaction_variant	RNASE6
structural_interaction_variant	RNASE6
structural_interaction_variant	RNASE3
structural_interaction_variant	RNASE3
structural_interaction_variant	METTL17
missense_variant&splice_region_variant	METTL17
structural_interaction_variant	SLC39A2
structural_interaction_variant	SLC39A2
missense_variant&splice_region_variant	NDRG2
missense_variant&splice_region_variant	NDRG2
structural_interaction_variant	NDRG2
structural_interaction_variant	NDRG2
structural_interaction_variant	TPPP2
structural_interaction_variant	RNASE13
structural_interaction_variant	RNASE8
structural_interaction_variant	RNASE8
frameshift_variant	RNASE8
structural_interaction_variant	RNASE8
structural_interaction_variant	ARHGEF40

splice_acceptor_variant&intron_variant	ARHGEF40
structural_interaction_variant	ARHGEF40
structural_interaction_variant	ARHGEF40
structural_interaction_variant	ARHGEF40
structural_interaction_variant	OR5AU1
structural_interaction_variant	OR5AU1
structural_interaction_variant	OR5AU1
structural_interaction_variant	OR5AU1
structural_interaction_variant	RPGRIP1
stop_gained	RPGRIP1
structural_interaction_variant	CHD8
structural_interaction_variant	CHD8
structural_interaction_variant	RAB2B
structural_interaction_variant	RAB2B
frameshift_variant	METTL3
frameshift_variant	METTL3
structural_interaction_variant	METTL3
frameshift_variant	METTL3
structural_interaction_variant	SALL2
stop_gained	SALL2
structural_interaction_variant	SALL2
structural_interaction_variant	SALL2
structural_interaction_variant	SALL2
structural_interaction_variant	OR10G3
structural_interaction_variant	OR10G3
frameshift_variant	OR4E2
structural_interaction_variant	OR4E2
structural_interaction_variant	ABHD4
structural_interaction_variant	ABHD4
structural_interaction_variant	MMP14
structural_interaction_variant	MMP14
structural_interaction_variant	MMP14
structural_interaction_variant	MMP14
structural_interaction_variant	LRP10
structural_interaction_variant	LRP10
structural_interaction_variant	LRP10
missense_variant&splice_region_variant	REM2
structural_interaction_variant	REM2
structural_interaction_variant	RBM23
structural_interaction_variant	RBM23
structural_interaction_variant	PRMT5
missense_variant&splice_region_variant	PRMT5
structural_interaction_variant	PRMT5
structural_interaction_variant	HAUS4
structural_interaction_variant	HAUS4
structural_interaction_variant	HAUS4
structural_interaction_variant	C14orf93
structural_interaction_variant	PSMB11

stop_gained	PSMB11
structural_interaction_variant	CDH24
structural_interaction_variant	CDH24
structural_interaction_variant	ACIN1
structural_interaction_variant	ACIN1
structural_interaction_variant	ACIN1
structural_interaction_variant	C14orf119
structural_interaction_variant	CEBPE
structural_interaction_variant	SLC7A8
structural_interaction_variant	SLC7A8
structural_interaction_variant	SLC7A8
structural_interaction_variant	C14orf164
splice_acceptor_variant&intron_variant	C14orf164
structural_interaction_variant	HOMEZ
structural_interaction_variant	EFS
structural_interaction_variant	EFS
structural_interaction_variant	EFS
frameshift_variant	IL25
structural_interaction_variant	CMTM5
structural_interaction_variant	MYH6
stop_gained&splice_region_variant	MYH6
stop_gained	MYH6
splice_donor_variant&intron_variant	MYH6
structural_interaction_variant	MYH6
stop_gained	MYH6
frameshift_variant	MYH6
frameshift_variant	MYH6
structural_interaction_variant	MYH6
structural_interaction_variant	MYH7
structural_interaction_variant	MYH7
structural_interaction_variant	MYH7
stop_gained	MYH7
structural_interaction_variant	MYH7
frameshift_variant&splice_region_variant	MYH7
structural_interaction_variant	NGDN
splice_acceptor_variant&intron_variant	NGDN
structural_interaction_variant	NGDN
structural_interaction_variant	NGDN
splice_acceptor_variant&intron_variant	NGDN
structural_interaction_variant	ZFHX2
structural_interaction_variant	ZFHX2
structural_interaction_variant	ZFHX2
structural_interaction_variant	ZFHX2
structural_interaction_variant	ZFHX2
structural_interaction_variant	ZFHX2
structural_interaction_variant	ZFHX2
structural_interaction_variant	ZFHX2
structural_interaction_variant	ZFHX2

structural_interaction_variant	THTPA
frameshift_variant	AP1G2
structural_interaction_variant	AP1G2
frameshift_variant	AP1G2
structural_interaction_variant	AP1G2
structural_interaction_variant	AP1G2
structural_interaction_variant	DHRS2
structural_interaction_variant	DHRS2
structural_interaction_variant	DHRS2
structural_interaction_variant	DHRS2
stop_gained	DHRS2
structural_interaction_variant	DHRS4L2
structural_interaction_variant	LRRC16B
structural_interaction_variant	LRRC16B
structural_interaction_variant	LRRC16B
structural_interaction_variant	LRRC16B
stop_gained	LRRC16B
structural_interaction_variant	LRRC16B
structural_interaction_variant	LRRC16B
structural_interaction_variant	CPNE6
frameshift_variant	CPNE6
structural_interaction_variant	PCK2
structural_interaction_variant	DCAF11
structural_interaction_variant	DCAF11
structural_interaction_variant	FITM1
structural_interaction_variant	FITM1
structural_interaction_variant	FITM1
stop_gained	FITM1
structural_interaction_variant	FITM1
structural_interaction_variant	FITM1
structural_interaction_variant	PSME1
stop_gained	PSME1
structural_interaction_variant	EMC9
structural_interaction_variant	EMC9
structural_interaction_variant	PSME2
structural_interaction_variant	RNF31
structural_interaction_variant	RP11-468E2.4
structural_interaction_variant	IRF9
splice_acceptor_variant&intron_variant	IPO4
structural_interaction_variant	IPO4
structural_interaction_variant	IPO4
structural_interaction_variant	IPO4
missense_variant&splice_region_variant	IPO4
structural_interaction_variant	IPO4
structural_interaction_variant	TM9SF1
frameshift_variant	TM9SF1
structural_interaction_variant	CHMP4A
stop_gained	CHMP4A

structural_interaction_variant	CHMP4A
missense_variant&splice_region_variant	CHMP4A
structural_interaction_variant	MDP1
structural_interaction_variant	NEDD8-MDP1
structural_interaction_variant	NEDD8-MDP1
structural_interaction_variant	TGM1
structural_interaction_variant	TGM1
structural_interaction_variant	RABGGTA
structural_interaction_variant	DHRS1
missense_variant&splice_region_variant	DHRS1
splice_acceptor_variant&intron_variant	DHRS1
structural_interaction_variant	NOP9
splice_acceptor_variant&intron_variant	NOP9
structural_interaction_variant	NOP9
structural_interaction_variant	CIDEB
structural_interaction_variant	LTB4R
structural_interaction_variant	ADCY4
structural_interaction_variant	ADCY4
structural_interaction_variant	ADCY4
structural_interaction_variant	ADCY4
structural_interaction_variant	ADCY4
structural_interaction_variant	ADCY4
structural_interaction_variant	RIPK3
structural_interaction_variant	RIPK3
structural_interaction_variant	RIPK3
structural_interaction_variant	RIPK3
structural_interaction_variant	RIPK3
structural_interaction_variant	NFATC4
structural_interaction_variant	NFATC4
structural_interaction_variant	NFATC4
structural_interaction_variant	NFATC4
structural_interaction_variant	NFATC4
structural_interaction_variant	NFATC4
structural_interaction_variant	NYNRIN
structural_interaction_variant	NYNRIN
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structural_interaction_variant	NYNRIN
structural_interaction_variant	NYNRIN
frameshift_variant	SDR39U1
structural_interaction_variant	SDR39U1
structural_interaction_variant	SDR39U1
structural_interaction_variant	CMA1

structural_interaction_variant	CMA1
structural_interaction_variant	CTSG
conservative_inframe_deletion	GZMH
structural_interaction_variant	GZMH
structural_interaction_variant	STXBP6
structural_interaction_variant	C14orf23
stop_gained	C14orf23
structural_interaction_variant	PRKD1
structural_interaction_variant	SCFD1
structural_interaction_variant	COCH
structural_interaction_variant	COCH
structural_interaction_variant	STRN3
structural_interaction_variant	HECTD1
structural_interaction_variant	HECTD1
structural_interaction_variant	HECTD1
structural_interaction_variant	HECTD1
structural_interaction_variant	HECTD1
structural_interaction_variant	HECTD1
structural_interaction_variant	HECTD1
structural_interaction_variant	HECTD1
structural_interaction_variant	HECTD1
structural_interaction_variant	HECTD1
structural_interaction_variant	HEATR5A
structural_interaction_variant	HEATR5A
frameshift_variant	HEATR5A
structural_interaction_variant	HEATR5A
structural_interaction_variant	HEATR5A
structural_interaction_variant	NUBPL
structural_interaction_variant	ARHGAP5
structural_interaction_variant	ARHGAP5
structural_interaction_variant	ARHGAP5
structural_interaction_variant	AKAP6
structural_interaction_variant	AKAP6
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structural_interaction_variant	AKAP6
structural_interaction_variant	NPAS3
structural_interaction_variant	NPAS3
structural_interaction_variant	NPAS3
structural_interaction_variant	NPAS3
structural_interaction_variant	EGLN3
structural_interaction_variant	EGLN3
structural_interaction_variant	EGLN3
structural_interaction_variant	EGLN3

structural_interaction_variant	EGLN3
structural_interaction_variant	EAPP
structural_interaction_variant	EAPP
disruptive_inframe_deletion	EAPP
structural_interaction_variant	EAPP
structural_interaction_variant	EAPP
structural_interaction_variant	SNX6
splice_acceptor_variant&intron_variant	SNX6
structural_interaction_variant	SNX6
structural_interaction_variant	BAZ1A
structural_interaction_variant	BAZ1A
structural_interaction_variant	BAZ1A
structural_interaction_variant	BAZ1A
structural_interaction_variant	SRP54
stop_gained	FAM177A1
structural_interaction_variant	PPP2R3C
structural_interaction_variant	PPP2R3C
structural_interaction_variant	KIAA0391
structural_interaction_variant	KIAA0391
structural_interaction_variant	NFKBIA
structural_interaction_variant	NFKBIA
structural_interaction_variant	INSM2
structural_interaction_variant	INSM2
structural_interaction_variant	RALGAPA1
structural_interaction_variant	BRMS1L
frameshift_variant	MBIP
structural_interaction_variant	SLC25A21
structural_interaction_variant	SLC25A21
splice_donor_variant&intron_variant	MIPOL1
structural_interaction_variant	FOXA1
structural_interaction_variant	FOXA1
structural_interaction_variant	FOXA1
structural_interaction_variant	FOXA1
structural_interaction_variant	FOXA1
structural_interaction_variant	FOXA1
structural_interaction_variant	TTC6
structural_interaction_variant	TTC6
structural_interaction_variant	TTC6
structural_interaction_variant	TTC6
structural_interaction_variant	TTC6
structural_interaction_variant	TTC6
structural_interaction_variant	SSTR1
structural_interaction_variant	SSTR1
structural_interaction_variant	SSTR1
structural_interaction_variant	SSTR1
structural_interaction_variant	SEC23A
structural_interaction_variant	SEC23A
structural_interaction_variant	GEMIN2

structural_interaction_variant	PNN
structural_interaction_variant	PNN
structural_interaction_variant	PNN
structural_interaction_variant	MIA2
structural_interaction_variant	MIA2
stop_gained	MIA2
structural_interaction_variant	MIA2
structural_interaction_variant	CTAGE5
structural_interaction_variant	FBXO33
structural_interaction_variant	FBXO33
structural_interaction_variant	LRFN5
structural_interaction_variant	LRFN5
structural_interaction_variant	FSCB
frameshift_variant	C14orf28
stop_gained	C14orf28
frameshift_variant	C14orf28
structural_interaction_variant	KLHL28
structural_interaction_variant	KLHL28
structural_interaction_variant	KLHL28
structural_interaction_variant	KLHL28
frameshift_variant	FAM179B
structural_interaction_variant	FAM179B
structural_interaction_variant	FAM179B
structural_interaction_variant	PRPF39
missense_variant&splice_region_variant	PRPF39
stop_gained	FANCM
structural_interaction_variant	MIS18BP1
structural_interaction_variant	MIS18BP1
structural_interaction_variant	MIS18BP1
structural_interaction_variant	MIS18BP1
structural_interaction_variant	RPL10L
structural_interaction_variant	RPL10L
structural_interaction_variant	RPL10L
structural_interaction_variant	MDGA2
structural_interaction_variant	MDGA2
structural_interaction_variant	MDGA2
structural_interaction_variant	MDGA2
structural_interaction_variant	LRR1
structural_interaction_variant	LRR1
structural_interaction_variant	MGAT2
structural_interaction_variant	MGAT2
structural_interaction_variant	POLE2
frameshift_variant	POLE2
structural_interaction_variant	KLHDC1
structural_interaction_variant	KLHDC1
structural_interaction_variant	KLHDC2
structural_interaction_variant	NEMF
structural_interaction_variant	NEMF

structural_interaction_variant	NEMF
structural_interaction_variant	NEMF
structural_interaction_variant	ARF6
structural_interaction_variant	ARF6
structural_interaction_variant	C14orf183
structural_interaction_variant	C14orf183
structural_interaction_variant	C14orf183
structural_interaction_variant	VCPKMT
structural_interaction_variant	VCPKMT
structural_interaction_variant	SOS2
frameshift_variant	L2HGDH
structural_interaction_variant	CDKL1
structural_interaction_variant	CDKL1
structural_interaction_variant	MAP4K5
structural_interaction_variant	MAP4K5
structural_interaction_variant	MAP4K5
structural_interaction_variant	MAP4K5
structural_interaction_variant	ATL1
structural_interaction_variant	SAV1
structural_interaction_variant	NIN
frameshift_variant	NIN
stop_gained	NIN
structural_interaction_variant	NIN
structural_interaction_variant	NIN
structural_interaction_variant	NIN
structural_interaction_variant	NIN
frameshift_variant	ABHD12B
structural_interaction_variant	PYGL
frameshift_variant	PYGL
structural_interaction_variant	FRMD6
structural_interaction_variant	FRMD6
structural_interaction_variant	FRMD6
structural_interaction_variant	FRMD6
structural_interaction_variant	FRMD6
structural_interaction_variant	FRMD6
structural_interaction_variant	NID2
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structural_interaction_variant	NID2
structural_interaction_variant	NID2
stop_gained	PTGDR
structural_interaction_variant	PTGDR
structural_interaction_variant	PTGDR
structural_interaction_variant	PTGDR

structural_interaction_variant	PTGDR
structural_interaction_variant	PTGER2
structural_interaction_variant	PTGER2
structural_interaction_variant	PTGER2
structural_interaction_variant	TXNDC16
structural_interaction_variant	TXNDC16
structural_interaction_variant	TXNDC16
structural_interaction_variant	TXNDC16
frameshift_variant	TXNDC16
structural_interaction_variant	TXNDC16
structural_interaction_variant	TXNDC16
structural_interaction_variant	ERO1L
structural_interaction_variant	PSMC6
structural_interaction_variant	PSMC6
structural_interaction_variant	FERMT2
structural_interaction_variant	FERMT2
structural_interaction_variant	FERMT2
structural_interaction_variant	FERMT2
structural_interaction_variant	FERMT2
structural_interaction_variant	DDHD1
structural_interaction_variant	CDKN3
structural_interaction_variant	CNIH1
structural_interaction_variant	SAMD4A
structural_interaction_variant	WDHD1
structural_interaction_variant	WDHD1
structural_interaction_variant	MAPK1IP1L
structural_interaction_variant	MAPK1IP1L
structural_interaction_variant	MAPK1IP1L
structural_interaction_variant	MAPK1IP1L
structural_interaction_variant	LGALS3
structural_interaction_variant	DLGAP5
structural_interaction_variant	DLGAP5
structural_interaction_variant	DLGAP5
structural_interaction_variant	DLGAP5
structural_interaction_variant	DLGAP5
structural_interaction_variant	FBXO34
structural_interaction_variant	FBXO34
structural_interaction_variant	FBXO34
structural_interaction_variant	ATG14
structural_interaction_variant	ATG14
structural_interaction_variant	ATG14
stop_gained	ATG14
structural_interaction_variant	TBPL2
structural_interaction_variant	TBPL2
structural_interaction_variant	TBPL2
structural_interaction_variant	TBPL2
structural_interaction_variant	KTN1
structural_interaction_variant	KTN1

stop_gained	KTN1
structural_interaction_variant	KTN1
structural_interaction_variant	KTN1
structural_interaction_variant	KTN1
structural_interaction_variant	KTN1
structural_interaction_variant	KTN1
structural_interaction_variant	KTN1
splice_donor_variant&intron_variant	KTN1
structural_interaction_variant	KTN1
structural_interaction_variant	KTN1
structural_interaction_variant	KTN1
structural_interaction_variant	KTN1
structural_interaction_variant	KTN1
structural_interaction_variant	KTN1
structural_interaction_variant	PELI2
structural_interaction_variant	EXOC5
missense_variant&splice_region_variant	AP5M1
structural_interaction_variant	AP5M1
structural_interaction_variant	AP5M1
structural_interaction_variant	AP5M1
missense_variant&splice_region_variant	SLC35F4
splice_donor_variant&intron_variant	SLC35F4
missense_variant&splice_region_variant	C14orf37
frameshift_variant	C14orf37
structural_interaction_variant	C14orf37
structural_interaction_variant	ACTR10
structural_interaction_variant	PSMA3
structural_interaction_variant	ARID4A
structural_interaction_variant	ARID4A
structural_interaction_variant	ARID4A
splice_donor_variant&intron_variant	TOMM20L
structural_interaction_variant	KIAA0586
structural_interaction_variant	KIAA0586
structural_interaction_variant	KIAA0586
frameshift_variant	KIAA0586
structural_interaction_variant	DAAM1
structural_interaction_variant	DAAM1
structural_interaction_variant	GPR135
structural_interaction_variant	GPR135
structural_interaction_variant	GPR135
structural_interaction_variant	GPR135
structural_interaction_variant	L3HYPDH
structural_interaction_variant	JKAMP
structural_interaction_variant	JKAMP
structural_interaction_variant	CCDC175
stop_gained	CCDC175
structural_interaction_variant	CCDC175
structural_interaction_variant	CCDC175

structural_interaction_variant	RTN1
structural_interaction_variant	RTN1
structural_interaction_variant	RTN1
structural_interaction_variant	PCNXL4
structural_interaction_variant	PCNXL4
stop_gained	PCNXL4
structural_interaction_variant	PCNXL4
frameshift_variant	PCNXL4
structural_interaction_variant	PCNXL4
structural_interaction_variant	PCNXL4
structural_interaction_variant	PCNXL4
structural_interaction_variant	PCNXL4
structural_interaction_variant	PCNXL4
structural_interaction_variant	DHRS7
missense_variant&splice_region_variant	DHRS7
structural_interaction_variant	PPM1A
structural_interaction_variant	SIX6
structural_interaction_variant	SIX4
structural_interaction_variant	SIX4
structural_interaction_variant	SIX4
structural_interaction_variant	SIX4
frameshift_variant	SIX4
structural_interaction_variant	SIX4
structural_interaction_variant	TRMT5
splice_donor_variant&intron_variant	TRMT5
frameshift_variant	TRMT5
structural_interaction_variant	TRMT5
structural_interaction_variant	SLC38A6
disruptive_inframe_deletion	SLC38A6
structural_interaction_variant	PRKCH
structural_interaction_variant	HIF1A
structural_interaction_variant	HIF1A
structural_interaction_variant	HIF1A
structural_interaction_variant	HIF1A
structural_interaction_variant	HIF1A
structural_interaction_variant	SNAPC1
structural_interaction_variant	SYT16
structural_interaction_variant	KCNH5
structural_interaction_variant	RHOJ
structural_interaction_variant	SYNE2
structural_interaction_variant	SYNE2
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structural_interaction_variant	SYNE2
splice_donor_variant&intron_variant	SYNE2
structural_interaction_variant	SYNE2
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structural_interaction_variant	SYNE2
structural_interaction_variant	SYNE2
missense_variant&splice_region_variant	SYNE2
structural_interaction_variant	SYNE2
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structural_interaction_variant	SYNE2
structural_interaction_variant	SYNE2
structural_interaction_variant	SYNE2
structural_interaction_variant	SYNE2
structural_interaction_variant	ESR2
structural_interaction_variant	ESR2
structural_interaction_variant	MTHFD1
structural_interaction_variant	ZBTB25
structural_interaction_variant	ZBTB25
structural_interaction_variant	ZBTB25
structural_interaction_variant	ZBTB25
structural_interaction_variant	ZBTB1
structural_interaction_variant	HSPA2
structural_interaction_variant	PPP1R36
stop_gained	PPP1R36
structural_interaction_variant	PLEKHG3
structural_interaction_variant	PLEKHG3
structural_interaction_variant	PLEKHG3
structural_interaction_variant	PLEKHG3
structural_interaction_variant	PLEKHG3
structural_interaction_variant	SPTB
structural_interaction_variant	SPTB
structural_interaction_variant	CHURC1-FNTB
structural_interaction_variant	RAB15

structural_interaction_variant	CHURC1-FNTB
structural_interaction_variant	CHURC1-FNTB
structural_interaction_variant	CHURC1-FNTB
structural_interaction_variant	FAM71D
structural_interaction_variant	FAM71D
structural_interaction_variant	MPP5
structural_interaction_variant	MPP5
stop_gained	ATP6V1D
stop_gained	PLEK2
structural_interaction_variant	PLEK2
structural_interaction_variant	PLEKHH1
frameshift_variant	PLEKHH1
structural_interaction_variant	PLEKHH1
structural_interaction_variant	PLEKHH1
structural_interaction_variant	PLEKHH1
structural_interaction_variant	PLEKHH1
missense_variant&splice_region_variant	PLEKHH1
structural_interaction_variant	ARG2
structural_interaction_variant	ARG2
structural_interaction_variant	ARG2
structural_interaction_variant	ARG2
structural_interaction_variant	VTI1B
structural_interaction_variant	VTI1B
structural_interaction_variant	RDH11
structural_interaction_variant	RDH12
structural_interaction_variant	ZFYVE26
structural_interaction_variant	ZFYVE26
frameshift_variant	RAD51B
structural_interaction_variant	ACTN1
stop_gained	DCAF5
structural_interaction_variant	DCAF5
structural_interaction_variant	EXD2
structural_interaction_variant	EXD2
structural_interaction_variant	EXD2
structural_interaction_variant	GALNT16
structural_interaction_variant	GALNT16
structural_interaction_variant	GALNT16
structural_interaction_variant	GALNT16
disruptive_inframe_deletion	GALNT16
structural_interaction_variant	PLEKHD1
structural_interaction_variant	KIAA0247
structural_interaction_variant	SRSF5
structural_interaction_variant	SRSF5
disruptive_inframe_deletion	SRSF5
frameshift_variant	SLC10A1
splice_donor_variant&intron_variant	SLC10A1
structural_interaction_variant	SLC8A3
structural_interaction_variant	SLC8A3

structural_interaction_variant	SLC8A3
structural_interaction_variant	SLC8A3
structural_interaction_variant	SLC8A3
structural_interaction_variant	ADAM21
structural_interaction_variant	ADAM21
structural_interaction_variant	MED6
structural_interaction_variant	MAP3K9
structural_interaction_variant	MAP3K9
structural_interaction_variant	MAP3K9
structural_interaction_variant	MAP3K9
structural_interaction_variant	MAP3K9
structural_interaction_variant	PCNX
structural_interaction_variant	PCNX
stop_gained	PCNX
structural_interaction_variant	PCNX
structural_interaction_variant	PCNX
structural_interaction_variant	PCNX
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structural_interaction_variant	PCNX
structural_interaction_variant	SIPA1L1
structural_interaction_variant	SIPA1L1
structural_interaction_variant	SIPA1L1
structural_interaction_variant	SIPA1L1
structural_interaction_variant	SIPA1L1
structural_interaction_variant	SIPA1L1
structural_interaction_variant	SIPA1L1
structural_interaction_variant	RGS6
structural_interaction_variant	RGS6
structural_interaction_variant	RGS6
stop_gained	DPF3
structural_interaction_variant	DCAF4
structural_interaction_variant	DCAF4
splice_donor_variant&intron_variant	ZFYVE1
structural_interaction_variant	RBM25
structural_interaction_variant	RBM25
structural_interaction_variant	PAPLN
structural_interaction_variant	PAPLN
structural_interaction_variant	PAPLN
structural_interaction_variant	PAPLN
structural_interaction_variant	PAPLN
stop_gained	PAPLN
structural_interaction_variant	PAPLN
structural_interaction_variant	PAPLN
structural_interaction_variant	NUMB

structural_interaction_variant	NUMB
structural_interaction_variant	NUMB
structural_interaction_variant	HEATR4
structural_interaction_variant	HEATR4
structural_interaction_variant	HEATR4
structural_interaction_variant	ELMSAN1
structural_interaction_variant	ELMSAN1
structural_interaction_variant	ELMSAN1
structural_interaction_variant	ELMSAN1
structural_interaction_variant	ELMSAN1
structural_interaction_variant	ELMSAN1
missense_variant&splice_region_variant	PTGR2
structural_interaction_variant	PTGR2
structural_interaction_variant	ZNF410
stop_gained	ZNF410
structural_interaction_variant	ZNF410
structural_interaction_variant	FAM161B
missense_variant&splice_region_variant	FAM161B
structural_interaction_variant	FAM161B
structural_interaction_variant	FAM161B
structural_interaction_variant	FAM161B
structural_interaction_variant	COQ6
structural_interaction_variant	COQ6
missense_variant&splice_region_variant	COQ6
splice_donor_variant&intron_variant	CCDC176
structural_interaction_variant	CCDC176
structural_interaction_variant	ALDH6A1
stop_gained	ALDH6A1
structural_interaction_variant	ALDH6A1
structural_interaction_variant	ALDH6A1
structural_interaction_variant	ALDH6A1
structural_interaction_variant	ABCD4
structural_interaction_variant	ABCD4
structural_interaction_variant	VRTN
structural_interaction_variant	VRTN
structural_interaction_variant	VRTN
structural_interaction_variant	VRTN
structural_interaction_variant	VRTN
structural_interaction_variant	VRTN
frameshift_variant	VRTN
structural_interaction_variant	VRTN
structural_interaction_variant	VRTN
structural_interaction_variant	VRTN
structural_interaction_variant	SYNDIG1L
structural_interaction_variant	SYNDIG1L
structural_interaction_variant	LTBP2
structural_interaction_variant	AREL1
structural_interaction_variant	AREL1

structural_interaction_variant	AREL1
structural_interaction_variant	YLPM1
structural_interaction_variant	YLPM1
structural_interaction_variant	YLPM1
structural_interaction_variant	YLPM1
structural_interaction_variant	YLPM1
structural_interaction_variant	YLPM1
structural_interaction_variant	YLPM1
structural_interaction_variant	PROX2
structural_interaction_variant	MLH3
stop_gained	MLH3
structural_interaction_variant	MLH3
stop_gained	MLH3
structural_interaction_variant	MLH3
frameshift_variant	ZC2HC1C
structural_interaction_variant	ZC2HC1C
structural_interaction_variant	FOS
structural_interaction_variant	FOS
structural_interaction_variant	JDP2
structural_interaction_variant	JDP2
structural_interaction_variant	BATF
structural_interaction_variant	FLVCR2
structural_interaction_variant	FLVCR2
structural_interaction_variant	FLVCR2
structural_interaction_variant	FLVCR2
structural_interaction_variant	C14orf1
stop_gained	TTLL5
structural_interaction_variant	TTLL5
structural_interaction_variant	GPATCH2L
structural_interaction_variant	ANGEL1
structural_interaction_variant	ANGEL1
structural_interaction_variant	C14orf166B
structural_interaction_variant	C14orf166B
splice_acceptor_variant&intron_variant	C14orf166B
structural_interaction_variant	C14orf166B
structural_interaction_variant	IRF2BPL
structural_interaction_variant	IRF2BPL
structural_interaction_variant	ZDHHC22
structural_interaction_variant	ZDHHC22
structural_interaction_variant	TMEM63C
structural_interaction_variant	TMEM63C
structural_interaction_variant	TMEM63C
structural_interaction_variant	POMT2
structural_interaction_variant	TMED8
structural_interaction_variant	TMED8
structural_interaction_variant	SAMD15
structural_interaction_variant	NOXRED1
structural_interaction_variant	ISM2

structural_interaction_variant	ISM2
structural_interaction_variant	ISM2
missense_variant&splice_region_variant	ALKBH1
structural_interaction_variant	SLIRP
structural_interaction_variant	SNW1
stop_gained	ADCK1
structural_interaction_variant	ADCK1
structural_interaction_variant	ADCK1
structural_interaction_variant	ADCK1
structural_interaction_variant	ADCK1
missense_variant&splice_region_variant	ADCK1
missense_variant&splice_region_variant	ADCK1
structural_interaction_variant	ADCK1
structural_interaction_variant	NRXN3
structural_interaction_variant	NRXN3
structural_interaction_variant	NRXN3
structural_interaction_variant	NRXN3
structural_interaction_variant	NRXN3
structural_interaction_variant	NRXN3
structural_interaction_variant	NRXN3
structural_interaction_variant	NRXN3
structural_interaction_variant	NRXN3
structural_interaction_variant	NRXN3
structural_interaction_variant	DIO2
structural_interaction_variant	CEP128
structural_interaction_variant	CEP128
missense_variant&splice_region_variant	GTF2A1
structural_interaction_variant	STON2
structural_interaction_variant	STON2
structural_interaction_variant	STON2
structural_interaction_variant	STON2
structural_interaction_variant	SEL1L
structural_interaction_variant	SEL1L
structural_interaction_variant	FLRT2
structural_interaction_variant	FLRT2
structural_interaction_variant	FLRT2
structural_interaction_variant	FLRT2
structural_interaction_variant	GPR65
structural_interaction_variant	GPR65
structural_interaction_variant	GPR65
structural_interaction_variant	GPR65
structural_interaction_variant	KCNK10
structural_interaction_variant	PTPN21
structural_interaction_variant	PTPN21
structural_interaction_variant	PTPN21
structural_interaction_variant	PTPN21
structural_interaction_variant	PTPN21
structural_interaction_variant	PTPN21

structural_interaction_variant	ZC3H14
structural_interaction_variant	EML5
structural_interaction_variant	EML5
structural_interaction_variant	EML5
structural_interaction_variant	EML5
structural_interaction_variant	EML5
missense_variant&splice_region_variant	EML5
structural_interaction_variant	EML5
structural_interaction_variant	TTC8
structural_interaction_variant	TTC8
structural_interaction_variant	FOXN3
structural_interaction_variant	FOXN3
structural_interaction_variant	FOXN3
structural_interaction_variant	FOXN3
missense_variant&splice_region_variant	EFCAB11
structural_interaction_variant	TDP1
structural_interaction_variant	TDP1
structural_interaction_variant	TDP1
frameshift_variant	KCNK13
stop_gained	NRDE2
structural_interaction_variant	NRDE2
structural_interaction_variant	TTC7B
structural_interaction_variant	TTC7B
structural_interaction_variant	TTC7B
structural_interaction_variant	TTC7B
stop_gained	RPS6KA5
structural_interaction_variant	RPS6KA5
structural_interaction_variant	RPS6KA5
structural_interaction_variant	RPS6KA5
structural_interaction_variant	C14orf159
structural_interaction_variant	CCDC88C
frameshift_variant	CCDC88C
structural_interaction_variant	CCDC88C
structural_interaction_variant	CCDC88C
structural_interaction_variant	CCDC88C
structural_interaction_variant	CCDC88C
structural_interaction_variant	CCDC88C
missense_variant&splice_region_variant	CCDC88C
structural_interaction_variant	CCDC88C
structural_interaction_variant	CCDC88C
structural_interaction_variant	CCDC88C
structural_interaction_variant	SMEK1
structural_interaction_variant	AL133373.1
structural_interaction_variant	AL133373.1
structural_interaction_variant	CATSPERB
structural_interaction_variant	CATSPERB
structural_interaction_variant	CATSPERB
structural_interaction_variant	CATSPERB

stop_gained	CATSPERB
structural_interaction_variant	CATSPERB
structural_interaction_variant	TC2N
frameshift_variant	TC2N
structural_interaction_variant	TC2N
structural_interaction_variant	TC2N
structural_interaction_variant	TC2N
structural_interaction_variant	FBLN5
structural_interaction_variant	FBLN5
structural_interaction_variant	TRIP11
stop_gained	TRIP11
structural_interaction_variant	NDUFB1
structural_interaction_variant	CPSF2
structural_interaction_variant	CPSF2
structural_interaction_variant	CPSF2
structural_interaction_variant	CPSF2
structural_interaction_variant	CPSF2
structural_interaction_variant	SLC24A4
stop_gained	SLC24A4
splice_donor_variant&intron_variant	RIN3
structural_interaction_variant	RIN3
structural_interaction_variant	LGMN
structural_interaction_variant	LGMN
structural_interaction_variant	LGMN
structural_interaction_variant	GOLGA5
structural_interaction_variant	GOLGA5
structural_interaction_variant	ITPK1
structural_interaction_variant	MOAP1
structural_interaction_variant	C14orf142
structural_interaction_variant	C14orf142
structural_interaction_variant	UBR7
frameshift_variant	UBR7
structural_interaction_variant	BTBD7
structural_interaction_variant	BTBD7
structural_interaction_variant	BTBD7
structural_interaction_variant	BTBD7
structural_interaction_variant	UNC79
structural_interaction_variant	UNC79
structural_interaction_variant	UNC79
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structural_interaction_variant	UNC79
structural_interaction_variant	UNC79
structural_interaction_variant	UNC79
structural_interaction_variant	PRIMA1
structural_interaction_variant	FAM181A
structural_interaction_variant	ASB2
structural_interaction_variant	ASB2

frameshift_variant	ASB2
structural_interaction_variant	ASB2
structural_interaction_variant	ASB2
structural_interaction_variant	ASB2
structural_interaction_variant	ASB2
structural_interaction_variant	ASB2
structural_interaction_variant	DDX24
structural_interaction_variant	DDX24
structural_interaction_variant	DDX24
frameshift_variant	IFI27L2
structural_interaction_variant	PPP4R4
structural_interaction_variant	PPP4R4
structural_interaction_variant	PPP4R4
structural_interaction_variant	PPP4R4
structural_interaction_variant	SERPINA10
stop_gained	SERPINA10
structural_interaction_variant	SERPINA10
structural_interaction_variant	SERPINA6
structural_interaction_variant	SERPINA1
structural_interaction_variant	SERPINA1
structural_interaction_variant	SERPINA11
structural_interaction_variant	SERPINA11
structural_interaction_variant	SERPINA11
structural_interaction_variant	SERPINA11
structural_interaction_variant	SERPINA9
structural_interaction_variant	SERPINA9
frameshift_variant	SERPINA9
frameshift_variant	SERPINA9
structural_interaction_variant	SERPINA9
structural_interaction_variant	SERPINA9
structural_interaction_variant	SERPINA9
splice_donor_variant&intron_variant	SERPINA12
structural_interaction_variant	SERPINA12
structural_interaction_variant	SERPINA12
structural_interaction_variant	SERPINA12
structural_interaction_variant	SERPINA4
structural_interaction_variant	SERPINA4
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structural_interaction_variant	SERPINA5
structural_interaction_variant	SERPINA5
structural_interaction_variant	SERPINA5
structural_interaction_variant	SERPINA5
structural_interaction_variant	SERPINA5
structural_interaction_variant	CLMN
stop_gained	CLMN
structural_interaction_variant	CLMN
structural_interaction_variant	CLMN
structural_interaction_variant	CLMN

structural_interaction_variant	CLMN
structural_interaction_variant	SYNE3
structural_interaction_variant	SYNE3
structural_interaction_variant	SYNE3
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structural_interaction_variant	SYNE3
structural_interaction_variant	TCL1B
structural_interaction_variant	TCL1B
structural_interaction_variant	TCL1A
structural_interaction_variant	TCL1A
structural_interaction_variant	TCL1A
structural_interaction_variant	BDKRB2
structural_interaction_variant	BDKRB2
structural_interaction_variant	ATG2B
structural_interaction_variant	ATG2B
structural_interaction_variant	ATG2B
structural_interaction_variant	ATG2B
structural_interaction_variant	ATG2B
structural_interaction_variant	ATG2B
stop_gained	ATG2B
structural_interaction_variant	ATG2B
structural_interaction_variant	ATG2B
structural_interaction_variant	ATG2B
structural_interaction_variant	ATG2B
structural_interaction_variant	GSKIP
structural_interaction_variant	AK7
structural_interaction_variant	AK7
structural_interaction_variant	PAPOLA
structural_interaction_variant	PAPOLA
structural_interaction_variant	VRK1
structural_interaction_variant	C14orf177
structural_interaction_variant	SETD3
structural_interaction_variant	SETD3
structural_interaction_variant	SETD3
structural_interaction_variant	SETD3
structural_interaction_variant	HHIPL1
structural_interaction_variant	HHIPL1
structural_interaction_variant	CYP46A1
structural_interaction_variant	CYP46A1
structural_interaction_variant	EML1
structural_interaction_variant	EML1
stop_gained	SLC25A47
structural_interaction_variant	SLC25A47
structural_interaction_variant	SLC25A47
stop_gained	SLC25A47
stop_gained	SLC25A47
structural_interaction_variant	SLC25A47
structural_interaction_variant	SLC25A47

structural_interaction_variant	DLK1
structural_interaction_variant	DLK1
structural_interaction_variant	DLK1
frameshift_variant	DLK1
stop_gained	DLK1
structural_interaction_variant	DLK1
structural_interaction_variant	RTL1
structural_interaction_variant	RTL1
structural_interaction_variant	RTL1
structural_interaction_variant	DIO3
structural_interaction_variant	DYNC1H1
structural_interaction_variant	DYNC1H1
structural_interaction_variant	DYNC1H1
structural_interaction_variant	HSP90AA1
frameshift_variant	WDR20
structural_interaction_variant	MOK
structural_interaction_variant	ZNF839
structural_interaction_variant	ZNF839
structural_interaction_variant	CINP
structural_interaction_variant	TECPR2
structural_interaction_variant	TECPR2
structural_interaction_variant	TRAF3
structural_interaction_variant	AMN
structural_interaction_variant	CDC42BPB
structural_interaction_variant	CDC42BPB
structural_interaction_variant	CDC42BPB
structural_interaction_variant	CDC42BPB
structural_interaction_variant	CDC42BPB
structural_interaction_variant	CDC42BPB
structural_interaction_variant	CDC42BPB
structural_interaction_variant	EXOC3L4
structural_interaction_variant	EXOC3L4
structural_interaction_variant	EXOC3L4
structural_interaction_variant	TNFAIP2
structural_interaction_variant	EIF5
structural_interaction_variant	EIF5
structural_interaction_variant	MARK3
structural_interaction_variant	MARK3
structural_interaction_variant	CKB
structural_interaction_variant	TRMT61A
structural_interaction_variant	BAG5
structural_interaction_variant	BAG5
structural_interaction_variant	BAG5
structural_interaction_variant	BAG5
structural_interaction_variant	APOPT1
structural_interaction_variant	APOPT1
structural_interaction_variant	APOPT1
structural_interaction_variant	KLC1

structural_interaction_variant	KLC1
structural_interaction_variant	XRCC3
structural_interaction_variant	XRCC3
structural_interaction_variant	PPP1R13B
structural_interaction_variant	PPP1R13B
structural_interaction_variant	PPP1R13B
structural_interaction_variant	PPP1R13B
structural_interaction_variant	TDRD9
splice_donor_variant&splice_region_variant&intron_	TDRD9
frameshift_variant	TDRD9
structural_interaction_variant	TDRD9
structural_interaction_variant	TDRD9
structural_interaction_variant	ASPG
structural_interaction_variant	ASPG
structural_interaction_variant	ASPG
structural_interaction_variant	KIF26A
structural_interaction_variant	TMEM179
structural_interaction_variant	AKT1
structural_interaction_variant	CEP170B
structural_interaction_variant	CEP170B
structural_interaction_variant	CEP170B
structural_interaction_variant	PLD4
structural_interaction_variant	PLD4
structural_interaction_variant	AHNAK2
structural_interaction_variant	AHNAK2
structural_interaction_variant	AHNAK2
structural_interaction_variant	AHNAK2
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structural_interaction_variant	AHNAK2
structural_interaction_variant	AHNAK2
structural_interaction_variant	AHNAK2
frameshift_variant	C14orf79
structural_interaction_variant	C14orf79
structural_interaction_variant	CDCA4
structural_interaction_variant	CDCA4
structural_interaction_variant	CDCA4
structural_interaction_variant	JAG2
structural_interaction_variant	JAG2
structural_interaction_variant	NUDT14
structural_interaction_variant	NUDT14
structural_interaction_variant	NUDT14
structural_interaction_variant	BRF1
structural_interaction_variant	BTBD6
structural_interaction_variant	BTBD6
structural_interaction_variant	BTBD6

structural_interaction_variant	PACS2
structural_interaction_variant	OR4M2
frameshift_variant	OR4M2
structural_interaction_variant	OR4M2
structural_interaction_variant	OR4N4
splice_donor_variant&intron_variant	TUBGCP5
stop_gained	TUBGCP5
structural_interaction_variant	TUBGCP5
structural_interaction_variant	TUBGCP5
structural_interaction_variant	TUBGCP5
structural_interaction_variant	CYFIP1
structural_interaction_variant	CYFIP1
structural_interaction_variant	CYFIP1
missense_variant&splice_region_variant	CYFIP1
structural_interaction_variant	CYFIP1
structural_interaction_variant	CYFIP1
structural_interaction_variant	NIPA2
structural_interaction_variant	NIPA2
structural_interaction_variant	NDN
structural_interaction_variant	NPAP1
structural_interaction_variant	NPAP1
structural_interaction_variant	NPAP1
structural_interaction_variant	ATP10A
structural_interaction_variant	ATP10A
structural_interaction_variant	ATP10A
stop_gained	ATP10A
structural_interaction_variant	GABRG3
structural_interaction_variant	GABRG3
structural_interaction_variant	GABRG3
structural_interaction_variant	GABRG3
structural_interaction_variant	GABRG3
structural_interaction_variant	GABRG3
structural_interaction_variant	OCA2
structural_interaction_variant	HERC2
structural_interaction_variant	HERC2
structural_interaction_variant	HERC2
structural_interaction_variant	APBA2
structural_interaction_variant	APBA2
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structural_interaction_variant	APBA2
structural_interaction_variant	APBA2
structural_interaction_variant	APBA2
structural_interaction_variant	FAM189A1
structural_interaction_variant	FAM189A1
structural_interaction_variant	TJP1
structural_interaction_variant	TJP1

structural_interaction_variant	TJP1
structural_interaction_variant	TJP1
structural_interaction_variant	TJP1
structural_interaction_variant	TJP1
structural_interaction_variant	TJP1
missense_variant&splice_region_variant	TJP1
disruptive_inframe_deletion&splice_region_variant	MTMR10
structural_interaction_variant	TRPM1
structural_interaction_variant	TRPM1
missense_variant&splice_region_variant	TRPM1
structural_interaction_variant	TRPM1
structural_interaction_variant	TRPM1
structural_interaction_variant	TRPM1
splice_acceptor_variant&intron_variant	TRPM1
structural_interaction_variant	CHRNA7
structural_interaction_variant	ARHGAP11A
frameshift_variant	ARHGAP11A
structural_interaction_variant	ARHGAP11A
structural_interaction_variant	ARHGAP11A
structural_interaction_variant	ARHGAP11A
structural_interaction_variant	ARHGAP11A
structural_interaction_variant	ARHGAP11A
structural_interaction_variant	SCG5
structural_interaction_variant	SCG5
structural_interaction_variant	GREM1
structural_interaction_variant	GREM1
structural_interaction_variant	FMN1
structural_interaction_variant	FMN1
frameshift_variant	FMN1
frameshift_variant	FMN1
structural_interaction_variant	FMN1
structural_interaction_variant	FMN1
structural_interaction_variant	FMN1
missense_variant&splice_region_variant	RYR3
structural_interaction_variant	RYR3
structural_interaction_variant	RYR3
structural_interaction_variant	RYR3
structural_interaction_variant	RYR3
structural_interaction_variant	RYR3
frameshift_variant	RYR3
structural_interaction_variant	RYR3
structural_interaction_variant	CHRM5
structural_interaction_variant	EMC7
structural_interaction_variant	PGBD4
frameshift_variant	PGBD4
structural_interaction_variant	SLC12A6
structural_interaction_variant	NUTM1
structural_interaction_variant	NUTM1

frameshift_variant	NUTM1
frameshift_variant&stop_gained	NUTM1
structural_interaction_variant	AQR
structural_interaction_variant	AQR
stop_gained	AQR
structural_interaction_variant	ZNF770
structural_interaction_variant	DPH6
missense_variant&splice_region_variant	C15orf41
structural_interaction_variant	TMCO5A
structural_interaction_variant	TMCO5A
structural_interaction_variant	FAM98B
structural_interaction_variant	FAM98B
stop_gained	C15orf53
structural_interaction_variant	C15orf53
structural_interaction_variant	C15orf54
structural_interaction_variant	C15orf54
structural_interaction_variant	THBS1
structural_interaction_variant	THBS1
structural_interaction_variant	THBS1
structural_interaction_variant	THBS1
structural_interaction_variant	THBS1
structural_interaction_variant	THBS1
structural_interaction_variant	FSIP1
structural_interaction_variant	FSIP1
missense_variant&splice_region_variant	FSIP1
structural_interaction_variant	FSIP1
structural_interaction_variant	GPR176
structural_interaction_variant	BMF
structural_interaction_variant	BMF
stop_gained	BUB1B
structural_interaction_variant	PAK6
stop_gained	PLCB2
structural_interaction_variant	PLCB2
structural_interaction_variant	PLCB2
splice_donor_variant&intron_variant	PLCB2
structural_interaction_variant	PLCB2
structural_interaction_variant	PLCB2
structural_interaction_variant	PLCB2
structural_interaction_variant	C15orf52
structural_interaction_variant	DISP2
structural_interaction_variant	DISP2
frameshift_variant	DISP2
structural_interaction_variant	DISP2
structural_interaction_variant	DISP2
structural_interaction_variant	DISP2
structural_interaction_variant	KNSTRN
structural_interaction_variant	KNSTRN
frameshift_variant&splice_region_variant	KNSTRN

structural_interaction_variant	IVD
structural_interaction_variant	IVD
frameshift_variant	BAHD1
structural_interaction_variant	BAHD1
stop_gained	BAHD1
structural_interaction_variant	RPUSD2
structural_interaction_variant	RPUSD2
structural_interaction_variant	RPUSD2
structural_interaction_variant	CASC5
structural_interaction_variant	CASC5
structural_interaction_variant	CASC5
structural_interaction_variant	CASC5
structural_interaction_variant	CASC5
frameshift_variant	CASC5
structural_interaction_variant	CASC5
structural_interaction_variant	CASC5
structural_interaction_variant	CASC5
structural_interaction_variant	CASC5
structural_interaction_variant	CASC5
frameshift_variant	RMDN3
frameshift_variant	RMDN3
structural_interaction_variant	RMDN3
missense_variant&splice_region_variant	DNAJC17
structural_interaction_variant	DNAJC17
structural_interaction_variant	ZFYVE19
structural_interaction_variant	ZFYVE19
splice_acceptor_variant&intron_variant	ZFYVE19
structural_interaction_variant	PPP1R14D
structural_interaction_variant	SPINT1
structural_interaction_variant	SPINT1
structural_interaction_variant	SPINT1
structural_interaction_variant	RHOV
structural_interaction_variant	RHOV
structural_interaction_variant	VPS18
structural_interaction_variant	VPS18
structural_interaction_variant	VPS18
structural_interaction_variant	VPS18
structural_interaction_variant	VPS18
structural_interaction_variant	DLL4
structural_interaction_variant	CHAC1
structural_interaction_variant	INO80
structural_interaction_variant	EXD1
structural_interaction_variant	EXD1
splice_donor_variant&intron_variant	EXD1
structural_interaction_variant	NUSAP1
structural_interaction_variant	NDUFAF1
structural_interaction_variant	RTF1
structural_interaction_variant	LTK

stop_gained	LTK
structural_interaction_variant	LTK
structural_interaction_variant	RPAP1
structural_interaction_variant	RPAP1
structural_interaction_variant	RPAP1
structural_interaction_variant	RPAP1
structural_interaction_variant	TYRO3
structural_interaction_variant	TYRO3
structural_interaction_variant	MGA
structural_interaction_variant	MGA
structural_interaction_variant	MGA
structural_interaction_variant	MGA
structural_interaction_variant	MGA
structural_interaction_variant	MGA
structural_interaction_variant	MGA
structural_interaction_variant	MGA
structural_interaction_variant	MGA
structural_interaction_variant	MGA
structural_interaction_variant	MGA
structural_interaction_variant	MGA
stop_gained	MAPKBP1
structural_interaction_variant	JMJD7-PLA2G4B
structural_interaction_variant	JMJD7
structural_interaction_variant	JMJD7
structural_interaction_variant	JMJD7-PLA2G4B
structural_interaction_variant	JMJD7-PLA2G4B
splice_acceptor_variant&intron_variant	JMJD7-PLA2G4B
structural_interaction_variant	JMJD7-PLA2G4B
splice_acceptor_variant&splice_region_variant&intr	PLA2G4B
structural_interaction_variant	JMJD7-PLA2G4B
structural_interaction_variant	JMJD7-PLA2G4B
structural_interaction_variant	JMJD7-PLA2G4B
splice_acceptor_variant&intron_variant	SPTBN5
structural_interaction_variant	SPTBN5
structural_interaction_variant	SPTBN5
structural_interaction_variant	SPTBN5
missense_variant&splice_region_variant	SPTBN5
stop_gained	SPTBN5
structural_interaction_variant	SPTBN5
structural_interaction_variant	SPTBN5
structural_interaction_variant	SPTBN5
structural_interaction_variant	SPTBN5
structural_interaction_variant	SPTBN5
structural_interaction_variant	SPTBN5
structural_interaction_variant	PLA2G4E
structural_interaction_variant	PLA2G4E
structural_interaction_variant	PLA2G4E
missense_variant&splice_region_variant	PLA2G4E

structural_interaction_variant	PLA2G4D
structural_interaction_variant	PLA2G4D
structural_interaction_variant	PLA2G4D
structural_interaction_variant	PLA2G4D
structural_interaction_variant	PLA2G4D
missense_variant&splice_region_variant	PLA2G4D
structural_interaction_variant	PLA2G4F
structural_interaction_variant	PLA2G4F
structural_interaction_variant	VPS39
structural_interaction_variant	VPS39
missense_variant&splice_region_variant	TMEM87A
splice_donor_variant&splice_region_variant&intron_	TMEM87A
structural_interaction_variant	GANC
structural_interaction_variant	GANC
structural_interaction_variant	GANC
structural_interaction_variant	GANC
structural_interaction_variant	GANC
structural_interaction_variant	GANC
structural_interaction_variant	GANC
frameshift_variant	CAPN3
structural_interaction_variant	ZNF106
structural_interaction_variant	SNAP23
structural_interaction_variant	LRRC57
structural_interaction_variant	LRRC57
structural_interaction_variant	HAUS2
stop_gained	STARD9
structural_interaction_variant	STARD9
structural_interaction_variant	CDAN1
frameshift_variant&splice_acceptor_variant&splice_r	CDAN1
structural_interaction_variant	CDAN1
structural_interaction_variant	CDAN1
structural_interaction_variant	TTBK2
structural_interaction_variant	TTBK2
structural_interaction_variant	TTBK2
structural_interaction_variant	TTBK2
structural_interaction_variant	TTBK2
structural_interaction_variant	TTBK2
stop_gained	TTBK2
structural_interaction_variant	TTBK2
structural_interaction_variant	TTBK2
structural_interaction_variant	TTBK2
structural_interaction_variant	UBR1
structural_interaction_variant	TMEM62
structural_interaction_variant	TMEM62
missense_variant&splice_region_variant	TMEM62
missense_variant&splice_region_variant	TMEM62
structural_interaction_variant	CCNDBP1
structural_interaction_variant	CCNDBP1

structural_interaction_variant	EPB42
structural_interaction_variant	EPB42
structural_interaction_variant	TGM5
structural_interaction_variant	TGM5
splice_donor_variant&intron_variant	TGM5
structural_interaction_variant	TGM5
structural_interaction_variant	TGM5
structural_interaction_variant	TGM5
structural_interaction_variant	TGM7
structural_interaction_variant	TGM7
stop_gained	TGM7
structural_interaction_variant	TGM7
stop_gained	TGM7
structural_interaction_variant	TGM7
structural_interaction_variant	LCMT2
structural_interaction_variant	LCMT2
structural_interaction_variant	LCMT2
splice_acceptor_variant&intron_variant	ADAL
structural_interaction_variant	ADAL
structural_interaction_variant	TUBGCP4
structural_interaction_variant	TP53BP1
structural_interaction_variant	TP53BP1
structural_interaction_variant	TP53BP1
structural_interaction_variant	TP53BP1
structural_interaction_variant	TP53BP1
structural_interaction_variant	TP53BP1
structural_interaction_variant	TP53BP1
structural_interaction_variant	TP53BP1
structural_interaction_variant	TP53BP1
structural_interaction_variant	MAP1A
structural_interaction_variant	MAP1A
structural_interaction_variant	MAP1A
structural_interaction_variant	MAP1A
frameshift_variant	MAP1A
structural_interaction_variant	MAP1A
frameshift_variant	MAP1A
structural_interaction_variant	MAP1A
structural_interaction_variant	MAP1A
structural_interaction_variant	MAP1A
structural_interaction_variant	MAP1A
structural_interaction_variant	MAP1A
structural_interaction_variant	MAP1A
stop_gained	MAP1A
stop_gained	PPIP5K1
structural_interaction_variant	PPIP5K1
structural_interaction_variant	CATSPER2
structural_interaction_variant	CATSPER2
structural_interaction_variant	PDIA3

structural_interaction_variant	PDIA3
structural_interaction_variant	PDIA3
structural_interaction_variant	PDIA3
frameshift_variant	ELL3
structural_interaction_variant	SERF2
structural_interaction_variant	SERF2
frameshift_variant	SERINC4
structural_interaction_variant	SERINC4
structural_interaction_variant	SERINC4
frameshift_variant&stop_gained	HYPK
stop_lost	SERF2
structural_interaction_variant	MFAP1
structural_interaction_variant	MFAP1
missense_variant&splice_region_variant	WDR76
structural_interaction_variant	WDR76
structural_interaction_variant	WDR76
structural_interaction_variant	WDR76
structural_interaction_variant	CASC4
structural_interaction_variant	CASC4
structural_interaction_variant	CTDSPL2
structural_interaction_variant	CTDSPL2
conservative_inframe_deletion	CTDSPL2
structural_interaction_variant	SPG11
structural_interaction_variant	SPG11
structural_interaction_variant	TRIM69
structural_interaction_variant	TRIM69
structural_interaction_variant	TRIM69
structural_interaction_variant	DUOX2
structural_interaction_variant	DUOX2
frameshift_variant	DUOX2
stop_gained	DUOX2
frameshift_variant	DUOXA2
structural_interaction_variant	DUOXA2
structural_interaction_variant	DUOX1
structural_interaction_variant	DUOX1
structural_interaction_variant	DUOX1
structural_interaction_variant	DUOX1
structural_interaction_variant	DUOX1
structural_interaction_variant	DUOX1
frameshift_variant	DUOX1
structural_interaction_variant	DUOX1
structural_interaction_variant	DUOX1
structural_interaction_variant	DUOX1
structural_interaction_variant	DUOX1
structural_interaction_variant	DUOX1
structural_interaction_variant	SLC28A2
structural_interaction_variant	SPATA5L1
structural_interaction_variant	SPATA5L1

stop_gained&splice_region_variant	C15orf48
splice_donor_variant&intron_variant	C15orf48
structural_interaction_variant	C15orf48
structural_interaction_variant	SLC30A4
structural_interaction_variant	SLC30A4
structural_interaction_variant	BLOC1S6
structural_interaction_variant	BLOC1S6
structural_interaction_variant	SEMA6D
structural_interaction_variant	SEMA6D
structural_interaction_variant	SEMA6D
structural_interaction_variant	SEMA6D
structural_interaction_variant	SEMA6D
frameshift_variant	SLC12A1
structural_interaction_variant	SLC12A1
structural_interaction_variant	SLC12A1
stop_gained	FBN1
structural_interaction_variant	FBN1
stop_gained&splice_region_variant	CEP152
structural_interaction_variant	CEP152
structural_interaction_variant	CEP152
structural_interaction_variant	CEP152
structural_interaction_variant	SHC4
structural_interaction_variant	SHC4
structural_interaction_variant	SECISBP2L
structural_interaction_variant	SECISBP2L
structural_interaction_variant	SECISBP2L
structural_interaction_variant	SECISBP2L
structural_interaction_variant	GALK2
structural_interaction_variant	GALK2
structural_interaction_variant	FAM227B
stop_gained	FAM227B
structural_interaction_variant	FAM227B
structural_interaction_variant	FAM227B
structural_interaction_variant	FAM227B
structural_interaction_variant	FAM227B
frameshift_variant	FAM227B
structural_interaction_variant	DTWD1
structural_interaction_variant	ATP8B4
structural_interaction_variant	ATP8B4
structural_interaction_variant	ATP8B4
structural_interaction_variant	ATP8B4
structural_interaction_variant	ATP8B4
structural_interaction_variant	ATP8B4
structural_interaction_variant	ATP8B4
structural_interaction_variant	ATP8B4
structural_interaction_variant	SLC27A2
structural_interaction_variant	SLC27A2
frameshift_variant	SLC27A2

structural_interaction_variant	SLC27A2
frameshift_variant	SLC27A2
structural_interaction_variant	HDC
structural_interaction_variant	HDC
structural_interaction_variant	HDC
structural_interaction_variant	HDC
structural_interaction_variant	USP8
structural_interaction_variant	USP8
structural_interaction_variant	USP8
structural_interaction_variant	USP8
structural_interaction_variant	USP50
structural_interaction_variant	USP50
structural_interaction_variant	TRPM7
structural_interaction_variant	TRPM7
structural_interaction_variant	TRPM7
structural_interaction_variant	TRPM7
structural_interaction_variant	TRPM7
structural_interaction_variant	TRPM7
stop_gained	AP4E1
structural_interaction_variant	TNFAIP8L3
structural_interaction_variant	TNFAIP8L3
structural_interaction_variant	CYP19A1
structural_interaction_variant	CYP19A1
missense_variant&splice_region_variant	DMXL2
structural_interaction_variant	DMXL2
structural_interaction_variant	DMXL2
structural_interaction_variant	DMXL2
structural_interaction_variant	DMXL2
structural_interaction_variant	DMXL2
structural_interaction_variant	DMXL2
structural_interaction_variant	DMXL2
structural_interaction_variant	DMXL2
structural_interaction_variant	SCG3
missense_variant&splice_region_variant	SCG3
structural_interaction_variant	TMOD2
structural_interaction_variant	TMOD2
structural_interaction_variant	TMOD2
stop_gained	TMOD3
structural_interaction_variant	LEO1
structural_interaction_variant	LEO1
structural_interaction_variant	GNB5
structural_interaction_variant	MYO5C
structural_interaction_variant	MYO5C
structural_interaction_variant	MYO5C
structural_interaction_variant	MYO5C
structural_interaction_variant	MYO5C
structural_interaction_variant	MYO5C
structural_interaction_variant	MYO5C

structural_interaction_variant	MYO5C
stop_gained	MYO5C
structural_interaction_variant	MYO5C
stop_gained	MYO5A
structural_interaction_variant	FAM214A
structural_interaction_variant	FAM214A
structural_interaction_variant	FAM214A
structural_interaction_variant	ONECUT1
stop_gained	WDR72
frameshift_variant	UNC13C
structural_interaction_variant	UNC13C
structural_interaction_variant	UNC13C
structural_interaction_variant	UNC13C
structural_interaction_variant	UNC13C
missense_variant&splice_region_variant	UNC13C
structural_interaction_variant	UNC13C
structural_interaction_variant	UNC13C
structural_interaction_variant	UNC13C
structural_interaction_variant	UNC13C
structural_interaction_variant	UNC13C
structural_interaction_variant	UNC13C
structural_interaction_variant	UNC13C
structural_interaction_variant	UNC13C
splice_acceptor_variant&intron_variant	PIGB
structural_interaction_variant	PIGB
frameshift_variant	PIGB
structural_interaction_variant	CCPG1
structural_interaction_variant	PRTG
structural_interaction_variant	PRTG
structural_interaction_variant	NEDD4
structural_interaction_variant	NEDD4
frameshift_variant	NEDD4
structural_interaction_variant	NEDD4
structural_interaction_variant	NEDD4
structural_interaction_variant	NEDD4
stop_gained	NEDD4
stop_gained	NEDD4
structural_interaction_variant	RFX7
structural_interaction_variant	RFX7
structural_interaction_variant	RFX7
stop_gained	TEX9
structural_interaction_variant	MNS1
structural_interaction_variant	MNS1
missense_variant&splice_region_variant	MNS1
stop_gained	MNS1
structural_interaction_variant	MNS1
splice_donor_variant&intron_variant	MNS1
structural_interaction_variant	ZNF280D

structural_interaction_variant	ZNF280D
structural_interaction_variant	ZNF280D
structural_interaction_variant	CGNL1
structural_interaction_variant	CGNL1
structural_interaction_variant	CGNL1
structural_interaction_variant	CGNL1
structural_interaction_variant	CGNL1
structural_interaction_variant	CGNL1
stop_gained	MYZAP
structural_interaction_variant	MYZAP
missense_variant&splice_region_variant	MYZAP
structural_interaction_variant	AQP9
structural_interaction_variant	LIPC
structural_interaction_variant	LIPC
stop_gained	LIPC
structural_interaction_variant	FAM63B
structural_interaction_variant	FAM63B
structural_interaction_variant	FAM63B
structural_interaction_variant	FAM63B
structural_interaction_variant	FAM63B
structural_interaction_variant	FAM63B
structural_interaction_variant	SLTM
structural_interaction_variant	RNF111
structural_interaction_variant	RNF111
structural_interaction_variant	RNF111
disruptive_inframe_deletion	RNF111
structural_interaction_variant	CCNB2
stop_gained	CCNB2
structural_interaction_variant	MYO1E
structural_interaction_variant	MYO1E
structural_interaction_variant	FAM81A
structural_interaction_variant	GCNT3
structural_interaction_variant	GTF2A2
structural_interaction_variant	BNIP2
structural_interaction_variant	FOXB1
structural_interaction_variant	ANXA2
structural_interaction_variant	NARG2
structural_interaction_variant	NARG2
structural_interaction_variant	NARG2
structural_interaction_variant	VPS13C
structural_interaction_variant	VPS13C
structural_interaction_variant	VPS13C
frameshift_variant	VPS13C
missense_variant&splice_region_variant	VPS13C
frameshift_variant	C2CD4A
structural_interaction_variant	C2CD4A
structural_interaction_variant	C2CD4A
structural_interaction_variant	TLN2

structural_interaction_variant	TLN2
structural_interaction_variant	TLN2
structural_interaction_variant	TLN2
structural_interaction_variant	TLN2
structural_interaction_variant	TLN2
structural_interaction_variant	TLN2
structural_interaction_variant	TLN2
structural_interaction_variant	TLN2
structural_interaction_variant	TLN2
structural_interaction_variant	TLN2
structural_interaction_variant	LACTB
structural_interaction_variant	LACTB
structural_interaction_variant	APH1B
structural_interaction_variant	APH1B
stop_gained&splice_region_variant	APH1B
structural_interaction_variant	CA12
missense_variant&splice_region_variant	USP3
structural_interaction_variant	FBXL22
structural_interaction_variant	FBXL22
stop_gained	HERC1
structural_interaction_variant	DAPK2
structural_interaction_variant	SNX1
structural_interaction_variant	SNX1
frameshift_variant	SNX1
structural_interaction_variant	SNX1
structural_interaction_variant	CTD-2116N17.1
structural_interaction_variant	CTD-2116N17.1
stop_lost&conservative_inframe_deletion	KIAA0101
structural_interaction_variant	KIAA0101
structural_interaction_variant	ZNF609
structural_interaction_variant	ZNF609
structural_interaction_variant	ZNF609
structural_interaction_variant	ZNF609
structural_interaction_variant	ZNF609
structural_interaction_variant	ZNF609
structural_interaction_variant	ZNF609
structural_interaction_variant	ZNF609
structural_interaction_variant	ZNF609
structural_interaction_variant	RBPMS2
structural_interaction_variant	PIF1
structural_interaction_variant	PIF1
structural_interaction_variant	ANKDD1A
structural_interaction_variant	ANKDD1A
structural_interaction_variant	ANKDD1A
structural_interaction_variant	MTFMT
frameshift_variant	SLC51B
structural_interaction_variant	RASL12
structural_interaction_variant	RASL12

structural_interaction_variant	KBTBD13
structural_interaction_variant	KBTBD13
structural_interaction_variant	CLPX
structural_interaction_variant	CLPX
structural_interaction_variant	CLPX
structural_interaction_variant	CILP
structural_interaction_variant	CILP
structural_interaction_variant	CILP
structural_interaction_variant	CILP
structural_interaction_variant	CILP
structural_interaction_variant	CILP
structural_interaction_variant	IGDCC3
structural_interaction_variant	IGDCC4
frameshift_variant	IGDCC4
structural_interaction_variant	IGDCC4
structural_interaction_variant	IGDCC4
structural_interaction_variant	IGDCC4
frameshift_variant	IGDCC4
structural_interaction_variant	DPP8
structural_interaction_variant	DPP8
structural_interaction_variant	DPP8
structural_interaction_variant	DPP8
stop_gained	PTPLAD1
structural_interaction_variant	VWA9
frameshift_variant	VWA9
structural_interaction_variant	SLC24A1
structural_interaction_variant	DENND4A
structural_interaction_variant	DENND4A
structural_interaction_variant	DENND4A
structural_interaction_variant	DENND4A
structural_interaction_variant	DENND4A
structural_interaction_variant	DENND4A
structural_interaction_variant	DENND4A
stop_gained	MEGF11
structural_interaction_variant	MEGF11
structural_interaction_variant	MEGF11
structural_interaction_variant	DIS3L
structural_interaction_variant	DIS3L
structural_interaction_variant	DIS3L
structural_interaction_variant	DIS3L
structural_interaction_variant	DIS3L
missense_variant&splice_region_variant	DIS3L
structural_interaction_variant	DIS3L
structural_interaction_variant	DIS3L
structural_interaction_variant	DIS3L
structural_interaction_variant	DIS3L
frameshift_variant	DIS3L
structural_interaction_variant	MAP2K1

structural_interaction_variant	ZWILCH
structural_interaction_variant	ZWILCH
structural_interaction_variant	ZWILCH
structural_interaction_variant	ZWILCH
structural_interaction_variant	ZWILCH
structural_interaction_variant	ZWILCH
structural_interaction_variant	ZWILCH
frameshift_variant	ZWILCH
structural_interaction_variant	ZWILCH
splice_donor_variant&intron_variant	LCTL
disruptive_inframe_deletion	LCTL
structural_interaction_variant	LCTL
stop_gained	SMAD6
structural_interaction_variant	AAGAB
structural_interaction_variant	IQCH
structural_interaction_variant	C15orf61
structural_interaction_variant	MAP2K5
structural_interaction_variant	SKOR1
structural_interaction_variant	SKOR1
structural_interaction_variant	SKOR1
structural_interaction_variant	PIAS1
structural_interaction_variant	PIAS1
structural_interaction_variant	CALML4
frameshift_variant	CLN6
structural_interaction_variant	CLN6
structural_interaction_variant	FEM1B
structural_interaction_variant	ITGA11
structural_interaction_variant	ITGA11
structural_interaction_variant	ITGA11
structural_interaction_variant	CORO2B
structural_interaction_variant	CORO2B
frameshift_variant	SPESP1
frameshift_variant	SPESP1
structural_interaction_variant	NOX5
structural_interaction_variant	GLCE
structural_interaction_variant	GLCE
structural_interaction_variant	KIF23
structural_interaction_variant	KIF23
structural_interaction_variant	KIF23
structural_interaction_variant	TLE3
structural_interaction_variant	TLE3
structural_interaction_variant	UACA
stop_gained	UACA
structural_interaction_variant	UACA
structural_interaction_variant	THAP10
splice_acceptor_variant&intron_variant	THSD4
structural_interaction_variant	THSD4
structural_interaction_variant	THSD4

structural_interaction_variant	MYO9A
structural_interaction_variant	MYO9A
structural_interaction_variant	MYO9A
structural_interaction_variant	MYO9A
structural_interaction_variant	MYO9A
frameshift_variant	MYO9A
structural_interaction_variant	SENP8
structural_interaction_variant	GRAMD2
structural_interaction_variant	PARP6
structural_interaction_variant	PARP6
structural_interaction_variant	HEXA
structural_interaction_variant	TMEM202
structural_interaction_variant	TMEM202
structural_interaction_variant	TMEM202
frameshift_variant	BBS4
stop_gained	BBS4
structural_interaction_variant	ADPGK
structural_interaction_variant	NEO1
structural_interaction_variant	NEO1
structural_interaction_variant	NEO1
structural_interaction_variant	NEO1
structural_interaction_variant	NEO1
structural_interaction_variant	NEO1
structural_interaction_variant	NEO1
structural_interaction_variant	C15orf60
structural_interaction_variant	NPTN
structural_interaction_variant	NPTN
structural_interaction_variant	C15orf59
structural_interaction_variant	TBC1D21
structural_interaction_variant	TBC1D21
structural_interaction_variant	LOXL1
structural_interaction_variant	STOML1
structural_interaction_variant	STOML1
structural_interaction_variant	PML
frameshift_variant	PML
structural_interaction_variant	PML
structural_interaction_variant	PML
missense_variant&splice_region_variant	PML
structural_interaction_variant	ISLR2
structural_interaction_variant	ISLR
structural_interaction_variant	STRA6
structural_interaction_variant	STRA6
structural_interaction_variant	STRA6
stop_gained	CCDC33
splice_donor_variant&intron_variant	CCDC33
structural_interaction_variant	CCDC33
structural_interaction_variant	CCDC33
structural_interaction_variant	SEMA7A

structural_interaction_variant	SEMA7A
structural_interaction_variant	CLK3
structural_interaction_variant	CLK3
structural_interaction_variant	CLK3
structural_interaction_variant	CLK3
structural_interaction_variant	EDC3
structural_interaction_variant	CYP1A2
structural_interaction_variant	CYP1A2
structural_interaction_variant	CYP1A2
missense_variant&splice_region_variant	CYP1A2
structural_interaction_variant	CYP1A2
structural_interaction_variant	CYP1A2
stop_gained&splice_region_variant	LMAN1L
structural_interaction_variant	CPLX3
structural_interaction_variant	CPLX3
structural_interaction_variant	ULK3
frameshift_variant	ULK3
frameshift_variant	ULK3
missense_variant&splice_region_variant	SCAMP2
structural_interaction_variant	FAM219B
structural_interaction_variant	FAM219B
structural_interaction_variant	FAM219B
structural_interaction_variant	PPCDC
structural_interaction_variant	C15orf39
structural_interaction_variant	C15orf39
structural_interaction_variant	C15orf39
structural_interaction_variant	C15orf39
structural_interaction_variant	C15orf39
structural_interaction_variant	C15orf39
structural_interaction_variant	NEIL1
structural_interaction_variant	MAN2C1
structural_interaction_variant	MAN2C1
structural_interaction_variant	MAN2C1
stop_gained	MAN2C1
frameshift_variant	MAN2C1
structural_interaction_variant	MAN2C1
structural_interaction_variant	PTPN9
structural_interaction_variant	PTPN9
structural_interaction_variant	PTPN9
structural_interaction_variant	IMP3
structural_interaction_variant	CSPG4
structural_interaction_variant	CSPG4
structural_interaction_variant	CSPG4
structural_interaction_variant	FBXO22
structural_interaction_variant	FBXO22
structural_interaction_variant	NRG4
structural_interaction_variant	C15orf27
stop_gained	C15orf27

structural_interaction_variant	ISL2
structural_interaction_variant	ISL2
structural_interaction_variant	SCAPER
structural_interaction_variant	SCAPER
structural_interaction_variant	RCN2
missense_variant&splice_region_variant	TSPAN3
structural_interaction_variant	PEAK1
structural_interaction_variant	PEAK1
structural_interaction_variant	PEAK1
structural_interaction_variant	PEAK1
structural_interaction_variant	PEAK1
structural_interaction_variant	PEAK1
structural_interaction_variant	HMG20A
structural_interaction_variant	HMG20A
structural_interaction_variant	TBC1D2B
structural_interaction_variant	TBC1D2B
conservative_inframe_deletion	SH2D7
structural_interaction_variant	SH2D7
structural_interaction_variant	SH2D7
structural_interaction_variant	SH2D7
structural_interaction_variant	CIB2
missense_variant&splice_region_variant	CIB2
stop_gained	ACSBG1
structural_interaction_variant	ACSBG1
stop_gained	DNAJA4
structural_interaction_variant	IREB2
structural_interaction_variant	IREB2
structural_interaction_variant	IREB2
structural_interaction_variant	IREB2
structural_interaction_variant	IREB2
structural_interaction_variant	HYKK
structural_interaction_variant	PSMA4
structural_interaction_variant	CHRNA5
structural_interaction_variant	CHRNA3
structural_interaction_variant	CHRNA3
structural_interaction_variant	CHRNA3
structural_interaction_variant	CHRNA3
structural_interaction_variant	CHRNA3
structural_interaction_variant	CHRNA3
structural_interaction_variant	CHRNB4
structural_interaction_variant	ADAMTS7
structural_interaction_variant	ADAMTS7
frameshift_variant	MORF4L1
structural_interaction_variant	RASGRF1
structural_interaction_variant	RASGRF1
structural_interaction_variant	RASGRF1
structural_interaction_variant	RASGRF1
structural_interaction_variant	RASGRF1

structural_interaction_variant	RASGRF1
structural_interaction_variant	TMED3
structural_interaction_variant	KIAA1024
structural_interaction_variant	KIAA1024
structural_interaction_variant	KIAA1024
structural_interaction_variant	KIAA1024
structural_interaction_variant	KIAA1024
structural_interaction_variant	ST20-MTHFS
structural_interaction_variant	BCL2A1
structural_interaction_variant	BCL2A1
structural_interaction_variant	BCL2A1
structural_interaction_variant	ARNT2
structural_interaction_variant	KIAA1199
stop_gained	KIAA1199
structural_interaction_variant	KIAA1199
structural_interaction_variant	KIAA1199
structural_interaction_variant	KIAA1199
structural_interaction_variant	KIAA1199
structural_interaction_variant	KIAA1199
structural_interaction_variant	KIAA1199
structural_interaction_variant	KIAA1199
structural_interaction_variant	C15orf26
structural_interaction_variant	C15orf26
structural_interaction_variant	C15orf26
structural_interaction_variant	IL16
structural_interaction_variant	IL16
missense_variant&splice_region_variant	IL16
structural_interaction_variant	IL16
structural_interaction_variant	IL16
structural_interaction_variant	IL16
structural_interaction_variant	IL16
frameshift_variant	IL16
frameshift_variant	TMC3
structural_interaction_variant	TMC3
splice_donor_variant&intron_variant	TMC3
structural_interaction_variant	TMC3
structural_interaction_variant	TMC3
structural_interaction_variant	MEX3B
structural_interaction_variant	MEX3B
structural_interaction_variant	MEX3B
structural_interaction_variant	MEX3B
structural_interaction_variant	MEX3B
structural_interaction_variant	MEX3B
structural_interaction_variant	MEX3B
structural_interaction_variant	EFTUD1
structural_interaction_variant	EFTUD1
structural_interaction_variant	EFTUD1
structural_interaction_variant	EFTUD1

structural_interaction_variant	EFTUD1
structural_interaction_variant	EFTUD1
stop_gained	FSD2
structural_interaction_variant	FSD2
frameshift_variant	FSD2
structural_interaction_variant	FSD2
structural_interaction_variant	WHAMM
frameshift_variant	WHAMM
structural_interaction_variant	WHAMM
structural_interaction_variant	WHAMM
structural_interaction_variant	C15orf40
structural_interaction_variant	BTBD1
structural_interaction_variant	BTBD1
structural_interaction_variant	TM6SF1
structural_interaction_variant	TM6SF1
structural_interaction_variant	SH3GL3
structural_interaction_variant	SH3GL3
structural_interaction_variant	SH3GL3
structural_interaction_variant	ADAMTSL3
structural_interaction_variant	ADAMTSL3
structural_interaction_variant	ADAMTSL3
frameshift_variant	ADAMTSL3
frameshift_variant&stop_gained	ADAMTSL3
structural_interaction_variant	ADAMTSL3
structural_interaction_variant	ADAMTSL3
structural_interaction_variant	ADAMTSL3
structural_interaction_variant	ADAMTSL3
splice_donor_variant&intron_variant	ADAMTSL3
structural_interaction_variant	ADAMTSL3
structural_interaction_variant	ADAMTSL3
structural_interaction_variant	ZSCAN2
structural_interaction_variant	NMB
structural_interaction_variant	ZNF592
structural_interaction_variant	ZNF592
structural_interaction_variant	ZNF592
frameshift_variant	ZNF592
structural_interaction_variant	ZNF592
structural_interaction_variant	ZNF592
structural_interaction_variant	ZNF592
structural_interaction_variant	ZNF592
structural_interaction_variant	ZNF592
structural_interaction_variant	ZNF592
structural_interaction_variant	SLC28A1
structural_interaction_variant	SLC28A1
splice_acceptor_variant&intron_variant	SLC28A1
structural_interaction_variant	SLC28A1
structural_interaction_variant	PDE8A
structural_interaction_variant	AKAP13

structural_interaction_variant	AKAP13
stop_gained	AKAP13
structural_interaction_variant	AKAP13
frameshift_variant	AKAP13
structural_interaction_variant	AKAP13
structural_interaction_variant	AKAP13
structural_interaction_variant	AKAP13
structural_interaction_variant	AKAP13
structural_interaction_variant	AKAP13
missense_variant&splice_region_variant	AKAP13
structural_interaction_variant	AKAP13
structural_interaction_variant	AKAP13
structural_interaction_variant	AKAP13
frameshift_variant	AKAP13
structural_interaction_variant	KLHL25
structural_interaction_variant	KLHL25
structural_interaction_variant	KLHL25
structural_interaction_variant	AGBL1
structural_interaction_variant	NTRK3
structural_interaction_variant	NTRK3
stop_gained	NTRK3
structural_interaction_variant	NTRK3
structural_interaction_variant	MRPL46
structural_interaction_variant	MRPL46
structural_interaction_variant	MRPS11
structural_interaction_variant	DET1
structural_interaction_variant	ISG20
structural_interaction_variant	MFGE8
structural_interaction_variant	MFGE8
structural_interaction_variant	MFGE8
structural_interaction_variant	MFGE8
structural_interaction_variant	ABHD2
structural_interaction_variant	ABHD2
structural_interaction_variant	RLBP1
structural_interaction_variant	RLBP1
structural_interaction_variant	FANCI
stop_gained	FANCI
structural_interaction_variant	POLG
structural_interaction_variant	POLG
missense_variant&splice_region_variant	POLG
structural_interaction_variant	RHCG
structural_interaction_variant	RHCG
structural_interaction_variant	RHCG
structural_interaction_variant	RHCG
structural_interaction_variant	PLIN1
structural_interaction_variant	PLIN1
structural_interaction_variant	WDR93
structural_interaction_variant	WDR93

structural_interaction_variant	WDR93
splice_donor_variant&intron_variant	WDR93
structural_interaction_variant	ANPEP
structural_interaction_variant	ANPEP
structural_interaction_variant	ANPEP
structural_interaction_variant	ANPEP
structural_interaction_variant	ANPEP
structural_interaction_variant	ANPEP
structural_interaction_variant	ANPEP
frameshift_variant	ANPEP
structural_interaction_variant	ANPEP
structural_interaction_variant	C15orf38-AP3S2
structural_interaction_variant	C15orf38-AP3S2
structural_interaction_variant	C15orf38
structural_interaction_variant	C15orf38
structural_interaction_variant	ZNF710
structural_interaction_variant	ZNF710
structural_interaction_variant	ZNF710
structural_interaction_variant	IDH2
structural_interaction_variant	IDH2
frameshift_variant&stop_gained	NGRN
structural_interaction_variant	GABARAPL3
structural_interaction_variant	ZNF774
structural_interaction_variant	IQGAP1
structural_interaction_variant	IQGAP1
structural_interaction_variant	IQGAP1
structural_interaction_variant	IQGAP1
structural_interaction_variant	IQGAP1
structural_interaction_variant	IQGAP1
structural_interaction_variant	IQGAP1
structural_interaction_variant	IQGAP1
structural_interaction_variant	CRTC3
structural_interaction_variant	CRTC3
structural_interaction_variant	CRTC3
structural_interaction_variant	BLM
structural_interaction_variant	FURIN
structural_interaction_variant	FURIN
structural_interaction_variant	FURIN
structural_interaction_variant	FURIN
missense_variant&splice_region_variant	FES
structural_interaction_variant	FES
structural_interaction_variant	FES
missense_variant&splice_region_variant	FES
structural_interaction_variant	FES
structural_interaction_variant	FES
structural_interaction_variant	MAN2A2
structural_interaction_variant	MAN2A2
structural_interaction_variant	MAN2A2

structural_interaction_variant	MAN2A2
structural_interaction_variant	MAN2A2
structural_interaction_variant	MAN2A2
structural_interaction_variant	MAN2A2
structural_interaction_variant	MAN2A2
structural_interaction_variant	MAN2A2
structural_interaction_variant	MAN2A2
structural_interaction_variant	MAN2A2
structural_interaction_variant	MAN2A2
structural_interaction_variant	MAN2A2
structural_interaction_variant	UNC45A
structural_interaction_variant	RCCD1
structural_interaction_variant	RCCD1
splice_donor_variant&intron_variant	RCCD1
structural_interaction_variant	VPS33B
structural_interaction_variant	VPS33B
structural_interaction_variant	SV2B
structural_interaction_variant	SV2B
structural_interaction_variant	SV2B
structural_interaction_variant	SLCO3A1
structural_interaction_variant	SLCO3A1
structural_interaction_variant	SLCO3A1
structural_interaction_variant	ST8SIA2
structural_interaction_variant	CHD2
structural_interaction_variant	RGMA
splice_acceptor_variant&intron_variant	MCTP2
structural_interaction_variant	MCTP2
structural_interaction_variant	MCTP2
frameshift_variant&stop_gained	MCTP2
structural_interaction_variant	MCTP2
structural_interaction_variant	MCTP2
frameshift_variant	MCTP2
structural_interaction_variant	MCTP2
structural_interaction_variant	NR2F2
structural_interaction_variant	SPATA8
missense_variant&splice_region_variant	ARRDC4
structural_interaction_variant	ARRDC4
structural_interaction_variant	ARRDC4
stop_gained	FAM169B
structural_interaction_variant	FAM169B
structural_interaction_variant	IGF1R
structural_interaction_variant	IGF1R
structural_interaction_variant	IGF1R
structural_interaction_variant	PGPEP1L
structural_interaction_variant	SYNM
structural_interaction_variant	SYNM
structural_interaction_variant	SYNM
structural_interaction_variant	SYNM

structural_interaction_variant	SYNM
stop_gained	SYNM
stop_gained	SYNM
structural_interaction_variant	SYNM
structural_interaction_variant	SYNM
stop_gained	SYNM
structural_interaction_variant	TTC23
structural_interaction_variant	TTC23
structural_interaction_variant	TTC23
frameshift_variant	LRRC28
structural_interaction_variant	MEF2A
structural_interaction_variant	MEF2A
structural_interaction_variant	MEF2A
structural_interaction_variant	MEF2A
stop_gained	MEF2A
structural_interaction_variant	MEF2A
frameshift_variant	MEF2A
structural_interaction_variant	MEF2A
structural_interaction_variant	LYSMD4
structural_interaction_variant	LYSMD4
disruptive_inframe_deletion	LINS
structural_interaction_variant	LINS
structural_interaction_variant	LINS
structural_interaction_variant	LINS
structural_interaction_variant	LINS
frameshift_variant	ALDH1A3
frameshift_variant	LRRK1
frameshift_variant	LRRK1
structural_interaction_variant	LRRK1
structural_interaction_variant	PCSK6
structural_interaction_variant	TM2D3
structural_interaction_variant	TM2D3
structural_interaction_variant	TARSL2
structural_interaction_variant	TARSL2
structural_interaction_variant	TARSL2
structural_interaction_variant	TARSL2
structural_interaction_variant	TARSL2
structural_interaction_variant	TARSL2
structural_interaction_variant	TARSL2
frameshift_variant	TARSL2
structural_interaction_variant	OR4F6
structural_interaction_variant	OR4F15
structural_interaction_variant	OR4F15
structural_interaction_variant	OR4F15
structural_interaction_variant	OR4F15
structural_interaction_variant	RHBDF1
structural_interaction_variant	RHBDF1
structural_interaction_variant	RHBDF1

structural_interaction_variant	RHBDF1
structural_interaction_variant	HBM
stop_gained	LUC7L
structural_interaction_variant	ITFG3
missense_variant&splice_region_variant	ITFG3
structural_interaction_variant	ITFG3
missense_variant&splice_region_variant	PDIA2
frameshift_variant	PDIA2
structural_interaction_variant	PDIA2
structural_interaction_variant	AXIN1
structural_interaction_variant	AXIN1
structural_interaction_variant	AXIN1
structural_interaction_variant	AXIN1
structural_interaction_variant	MRPL28
structural_interaction_variant	MRPL28
structural_interaction_variant	MRPL28
frameshift_variant	MRPL28
structural_interaction_variant	TMEM8A
structural_interaction_variant	TMEM8A
missense_variant&splice_region_variant	TMEM8A
structural_interaction_variant	TMEM8A
stop_gained	NME4
missense_variant&splice_region_variant	NME4
structural_interaction_variant	NME4
structural_interaction_variant	DECR2
structural_interaction_variant	DECR2
structural_interaction_variant	DECR2
frameshift_variant&stop_lost	DECR2
gene_fusion	DECR2&NME4
splice_donor_variant&splice_region_variant&intron_	DECR2
missense_variant&splice_region_variant	DECR2
structural_interaction_variant	DECR2
structural_interaction_variant	RAB11FIP3
structural_interaction_variant	RAB11FIP3
structural_interaction_variant	C16orf11
structural_interaction_variant	C16orf11
structural_interaction_variant	C16orf11
structural_interaction_variant	C16orf11
structural_interaction_variant	PIGQ
structural_interaction_variant	PIGQ
structural_interaction_variant	PIGQ
structural_interaction_variant	RAB40C
structural_interaction_variant	FAM195A
structural_interaction_variant	WDR90
structural_interaction_variant	WDR90
structural_interaction_variant	WDR90
structural_interaction_variant	WDR90
structural_interaction_variant	WDR90

structural_interaction_variant	WDR90
structural_interaction_variant	WDR90
structural_interaction_variant	WDR90
structural_interaction_variant	WDR90
structural_interaction_variant	WDR90
stop_gained	RHOT2
structural_interaction_variant	RHOT2
frameshift_variant	RHOT2
structural_interaction_variant	RHOT2
structural_interaction_variant	STUB1
structural_interaction_variant	FBXL16
structural_interaction_variant	FAM173A
structural_interaction_variant	FAM173A
structural_interaction_variant	CCDC78
structural_interaction_variant	CCDC78
structural_interaction_variant	CCDC78
stop_gained	CCDC78
structural_interaction_variant	HAGHL
structural_interaction_variant	HAGHL
structural_interaction_variant	NARFL
stop_gained	NARFL
structural_interaction_variant	MSLN
structural_interaction_variant	MSLN
structural_interaction_variant	MSLN
structural_interaction_variant	MSLN
structural_interaction_variant	RPUSD1
structural_interaction_variant	CHTF18
structural_interaction_variant	CHTF18
frameshift_variant	LMF1
structural_interaction_variant	SSTR5
structural_interaction_variant	SSTR5
structural_interaction_variant	C1QTNF8
structural_interaction_variant	CACNA1H
structural_interaction_variant	CACNA1H
structural_interaction_variant	CACNA1H
structural_interaction_variant	CACNA1H
structural_interaction_variant	CACNA1H
conservative_inframe_deletion	CACNA1H
structural_interaction_variant	TPSG1
structural_interaction_variant	TPSG1
structural_interaction_variant	UBE2I
structural_interaction_variant	BAIAP3
structural_interaction_variant	BAIAP3
structural_interaction_variant	BAIAP3
structural_interaction_variant	BAIAP3
structural_interaction_variant	BAIAP3
structural_interaction_variant	TSR3
missense_variant&splice_region_variant	TSR3

structural_interaction_variant	GNPTG
frameshift_variant	GNPTG
structural_interaction_variant	GNPTG
frameshift_variant	PTX4
structural_interaction_variant	PTX4
structural_interaction_variant	IFT140
structural_interaction_variant	IFT140
structural_interaction_variant	CRAMP1L
structural_interaction_variant	CRAMP1L
structural_interaction_variant	CRAMP1L
structural_interaction_variant	MAPK8IP3
structural_interaction_variant	MAPK8IP3
missense_variant&splice_region_variant	MAPK8IP3
structural_interaction_variant	MRPS34
structural_interaction_variant	EME2
structural_interaction_variant	EME2
structural_interaction_variant	EME2
structural_interaction_variant	EME2
structural_interaction_variant	EME2
structural_interaction_variant	EME2
structural_interaction_variant	SPSB3
splice_acceptor_variant&conservative_inframe_delet	NUBP2
structural_interaction_variant	NUBP2
frameshift_variant	NUBP2
structural_interaction_variant	IGFALS
structural_interaction_variant	IGFALS
structural_interaction_variant	HAGH
structural_interaction_variant	FAHD1
structural_interaction_variant	FAHD1
structural_interaction_variant	FAHD1
structural_interaction_variant	FAHD1
structural_interaction_variant	MEIOB
structural_interaction_variant	MEIOB
structural_interaction_variant	MEIOB
structural_interaction_variant	HS3ST6
structural_interaction_variant	HS3ST6
structural_interaction_variant	HS3ST6
splice_donor_variant&intron_variant	MSRB1
structural_interaction_variant	MSRB1
structural_interaction_variant	MSRB1
structural_interaction_variant	RPL3L
stop_gained&splice_region_variant	RPL3L
structural_interaction_variant	RNF151
structural_interaction_variant	RNF151
structural_interaction_variant	RNF151
structural_interaction_variant	TBL3
structural_interaction_variant	TBL3
structural_interaction_variant	TBL3

structural_interaction_variant	TBL3
structural_interaction_variant	GFER
structural_interaction_variant	ZNF598
structural_interaction_variant	ZNF598
structural_interaction_variant	SLC9A3R2
missense_variant&splice_region_variant	RAB26
structural_interaction_variant	RAB26
structural_interaction_variant	RAB26
missense_variant&splice_region_variant	RAB26
structural_interaction_variant	RAB26
structural_interaction_variant	RAB26
structural_interaction_variant	TRAF7
structural_interaction_variant	TRAF7
structural_interaction_variant	TRAF7
structural_interaction_variant	TRAF7
structural_interaction_variant	CASKIN1
structural_interaction_variant	CASKIN1
structural_interaction_variant	CASKIN1
structural_interaction_variant	CASKIN1
structural_interaction_variant	MLST8
structural_interaction_variant	MLST8
structural_interaction_variant	BRICD5
structural_interaction_variant	BRICD5
splice_donor_variant&intron_variant	BRICD5
structural_interaction_variant	BRICD5
structural_interaction_variant	E4F1
structural_interaction_variant	E4F1
structural_interaction_variant	E4F1
missense_variant&splice_region_variant	DNASE1L2
structural_interaction_variant	DNASE1L2
structural_interaction_variant	ABCA3
structural_interaction_variant	ABCA3
structural_interaction_variant	CCNF
structural_interaction_variant	CCNF
structural_interaction_variant	C16orf59
structural_interaction_variant	NTN3
structural_interaction_variant	NTN3
structural_interaction_variant	NTN3
stop_gained	NTN3
structural_interaction_variant	AMDHD2
structural_interaction_variant	AMDHD2
splice_donor_variant&intron_variant	PDPK1
structural_interaction_variant	KCTD5
structural_interaction_variant	KCTD5
structural_interaction_variant	KCTD5
structural_interaction_variant	KCTD5
structural_interaction_variant	PRSS27
structural_interaction_variant	PRSS27

structural_interaction_variant	SRRM2
structural_interaction_variant	SRRM2
structural_interaction_variant	SRRM2
structural_interaction_variant	SRRM2
structural_interaction_variant	SRRM2
structural_interaction_variant	SRRM2
structural_interaction_variant	SRRM2
structural_interaction_variant	SRRM2
structural_interaction_variant	SRRM2
structural_interaction_variant	SRRM2
structural_interaction_variant	SRRM2
structural_interaction_variant	TCEB2
structural_interaction_variant	PRSS22
structural_interaction_variant	PRSS22
structural_interaction_variant	PRSS22
structural_interaction_variant	FLYWCH1
structural_interaction_variant	FLYWCH1
structural_interaction_variant	PAQR4
structural_interaction_variant	PAQR4
structural_interaction_variant	PKMYT1
structural_interaction_variant	CLDN6
structural_interaction_variant	CLDN6
structural_interaction_variant	THOC6
structural_interaction_variant	CCDC64B
structural_interaction_variant	MMP25
structural_interaction_variant	MMP25
structural_interaction_variant	IL32
structural_interaction_variant	ZSCAN10
structural_interaction_variant	ZSCAN10
structural_interaction_variant	ZSCAN10
structural_interaction_variant	ZSCAN10
structural_interaction_variant	ZSCAN10
structural_interaction_variant	ZNF205
structural_interaction_variant	ZNF205
structural_interaction_variant	ZNF213
structural_interaction_variant	ZNF213
splice_acceptor_variant&intron_variant	ZNF213
structural_interaction_variant	OR1F1
stop_gained	OR1F1
structural_interaction_variant	ZNF200
structural_interaction_variant	MEFV
structural_interaction_variant	MEFV
structural_interaction_variant	MEFV
frameshift_variant	MEFV
structural_interaction_variant	MEFV
structural_interaction_variant	MEFV
structural_interaction_variant	ZNF263
structural_interaction_variant	ZNF263

structural_interaction_variant	ZNF263
stop_gained	ZNF263
structural_interaction_variant	ZNF263
structural_interaction_variant	TIGD7
structural_interaction_variant	TIGD7
structural_interaction_variant	ZNF75A
structural_interaction_variant	OR2C1
structural_interaction_variant	ZSCAN32
structural_interaction_variant	ZNF174
structural_interaction_variant	ZNF174
structural_interaction_variant	ZNF174
structural_interaction_variant	ZNF597
structural_interaction_variant	ZNF597
structural_interaction_variant	ZNF597
structural_interaction_variant	ZNF597
structural_interaction_variant	C16orf90
structural_interaction_variant	CLUAP1
structural_interaction_variant	CLUAP1
structural_interaction_variant	CLUAP1
structural_interaction_variant	NLRC3
structural_interaction_variant	NLRC3
structural_interaction_variant	NLRC3
structural_interaction_variant	NLRC3
missense_variant&splice_region_variant	NLRC3
structural_interaction_variant	NLRC3
structural_interaction_variant	NLRC3
structural_interaction_variant	SLX4
structural_interaction_variant	SLX4
structural_interaction_variant	DNASE1
structural_interaction_variant	DNASE1
structural_interaction_variant	DNASE1
structural_interaction_variant	DNASE1
structural_interaction_variant	DNASE1
structural_interaction_variant	TRAP1
structural_interaction_variant	TRAP1
structural_interaction_variant	TRAP1
structural_interaction_variant	TRAP1
structural_interaction_variant	TRAP1
structural_interaction_variant	TRAP1
structural_interaction_variant	TRAP1
structural_interaction_variant	ADCY9
structural_interaction_variant	ADCY9
splice_donor_variant&intron_variant	ADCY9
structural_interaction_variant	ADCY9
structural_interaction_variant	ADCY9
structural_interaction_variant	ADCY9
stop_gained	ADCY9
structural_interaction_variant	ADCY9

structural_interaction_variant	ADCY9
structural_interaction_variant	SRL
structural_interaction_variant	TFAP4
structural_interaction_variant	GLIS2
structural_interaction_variant	GLIS2
structural_interaction_variant	GLIS2
structural_interaction_variant	CORO7
structural_interaction_variant	CORO7
structural_interaction_variant	CORO7
structural_interaction_variant	VASN
structural_interaction_variant	CORO7
structural_interaction_variant	CORO7
structural_interaction_variant	CORO7
structural_interaction_variant	CORO7
structural_interaction_variant	DNAJA3
structural_interaction_variant	DNAJA3
structural_interaction_variant	NMRAL1
structural_interaction_variant	HMOX2
structural_interaction_variant	HMOX2
structural_interaction_variant	CDIP1
structural_interaction_variant	C16orf96
structural_interaction_variant	C16orf96
structural_interaction_variant	C16orf96
structural_interaction_variant	MGRN1
structural_interaction_variant	MGRN1
structural_interaction_variant	MGRN1
structural_interaction_variant	NUDT16L1
structural_interaction_variant	NUDT16L1
structural_interaction_variant	ANKS3
structural_interaction_variant	ANKS3
structural_interaction_variant	ANKS3
splice_donor_variant&intron_variant	C16orf71
structural_interaction_variant	C16orf71
structural_interaction_variant	C16orf71
structural_interaction_variant	C16orf71
structural_interaction_variant	ZNF500
structural_interaction_variant	ZNF500
structural_interaction_variant	ZNF500
structural_interaction_variant	SEPT12
missense_variant&splice_region_variant	SEPT12
structural_interaction_variant	SEPT12
structural_interaction_variant	GLYR1
structural_interaction_variant	UBN1
structural_interaction_variant	UBN1
structural_interaction_variant	UBN1
structural_interaction_variant	UBN1
stop_gained	PPL
structural_interaction_variant	PPL

structural_interaction_variant	PPL
structural_interaction_variant	PPL
structural_interaction_variant	PPL
structural_interaction_variant	PPL
structural_interaction_variant	PPL
structural_interaction_variant	PPL
structural_interaction_variant	PPL
structural_interaction_variant	PPL
structural_interaction_variant	PPL
structural_interaction_variant	PPL
stop_gained	SEC14L5
structural_interaction_variant	SEC14L5
structural_interaction_variant	SEC14L5
structural_interaction_variant	SEC14L5
structural_interaction_variant	SEC14L5
structural_interaction_variant	SEC14L5
structural_interaction_variant	NAGPA
structural_interaction_variant	C16orf89
structural_interaction_variant	C16orf89
structural_interaction_variant	C16orf89
structural_interaction_variant	C16orf89
structural_interaction_variant	ALG1
structural_interaction_variant	METTL22
stop_gained&splice_region_variant	METTL22
structural_interaction_variant	METTL22
structural_interaction_variant	METTL22
structural_interaction_variant	METTL22
structural_interaction_variant	METTL22
structural_interaction_variant	ABAT
structural_interaction_variant	ABAT
structural_interaction_variant	ABAT
structural_interaction_variant	CARHSP1
structural_interaction_variant	CARHSP1
structural_interaction_variant	USP7
structural_interaction_variant	C16orf72
structural_interaction_variant	GRIN2A
structural_interaction_variant	ATF7IP2
structural_interaction_variant	ATF7IP2
structural_interaction_variant	TEKT5
structural_interaction_variant	TEKT5
structural_interaction_variant	TEKT5
structural_interaction_variant	TEKT5
structural_interaction_variant	TEKT5
structural_interaction_variant	NUBP1
structural_interaction_variant	NUBP1
structural_interaction_variant	NUBP1
structural_interaction_variant	NUBP1
structural_interaction_variant	TVP23A

structural_interaction_variant	TVP23A
structural_interaction_variant	CLEC16A
structural_interaction_variant	CLEC16A
structural_interaction_variant	CLEC16A
structural_interaction_variant	CLEC16A
structural_interaction_variant	CLEC16A
structural_interaction_variant	CLEC16A
structural_interaction_variant	CLEC16A
structural_interaction_variant	CLEC16A
structural_interaction_variant	CLEC16A
structural_interaction_variant	CLEC16A
structural_interaction_variant	PRM2
structural_interaction_variant	PRM1
structural_interaction_variant	CTD-3088G3.8
structural_interaction_variant	CTD-3088G3.8
stop_gained	CTD-3088G3.8
structural_interaction_variant	SNN
structural_interaction_variant	TXNDC11
structural_interaction_variant	TXNDC11
structural_interaction_variant	TXNDC11
missense_variant&splice_region_variant	TXNDC11
structural_interaction_variant	ZC3H7A
structural_interaction_variant	ZC3H7A
structural_interaction_variant	RSL1D1
structural_interaction_variant	RSL1D1
structural_interaction_variant	RSL1D1
structural_interaction_variant	RSL1D1
structural_interaction_variant	RSL1D1
structural_interaction_variant	GSPT1
missense_variant&splice_region_variant	SNX29
structural_interaction_variant	SNX29
structural_interaction_variant	SNX29
structural_interaction_variant	SNX29
structural_interaction_variant	SNX29
structural_interaction_variant	SHISA9
structural_interaction_variant	SHISA9
structural_interaction_variant	SHISA9
structural_interaction_variant	SHISA9
structural_interaction_variant	MKL2
structural_interaction_variant	MKL2
structural_interaction_variant	MKL2
structural_interaction_variant	MKL2
structural_interaction_variant	MKL2
structural_interaction_variant	PARN
stop_gained	BFAR
structural_interaction_variant	BFAR
structural_interaction_variant	BFAR
missense_variant&splice_region_variant	PDXDC1

structural_interaction_variant	NTAN1
structural_interaction_variant	NTAN1
stop_gained	MPV17L
structural_interaction_variant	C16orf45
structural_interaction_variant	C16orf45
structural_interaction_variant	KIAA0430
structural_interaction_variant	KIAA0430
structural_interaction_variant	KIAA0430
structural_interaction_variant	KIAA0430
structural_interaction_variant	KIAA0430
structural_interaction_variant	KIAA0430
structural_interaction_variant	KIAA0430
structural_interaction_variant	MYH11
structural_interaction_variant	MYH11
structural_interaction_variant	MYH11
structural_interaction_variant	MYH11
stop_gained	MYH11
structural_interaction_variant	MYH11
structural_interaction_variant	FOPNL
structural_interaction_variant	FOPNL
start_lost	FOPNL
structural_interaction_variant	ABCC1
frameshift_variant	ABCC1
structural_interaction_variant	ABCC1
structural_interaction_variant	ABCC1
structural_interaction_variant	ABCC1
structural_interaction_variant	ABCC1
structural_interaction_variant	ABCC1
structural_interaction_variant	ABCC1
structural_interaction_variant	ABCC1
structural_interaction_variant	ABCC6
structural_interaction_variant	XYLT1
structural_interaction_variant	ARL6IP1
structural_interaction_variant	SMG1
structural_interaction_variant	SMG1
structural_interaction_variant	SMG1
structural_interaction_variant	SMG1
structural_interaction_variant	SMG1
structural_interaction_variant	SMG1
structural_interaction_variant	TMC7
structural_interaction_variant	TMC7
structural_interaction_variant	TMC7
structural_interaction_variant	COQ7
structural_interaction_variant	SYT17
structural_interaction_variant	SYT17
structural_interaction_variant	SYT17
structural_interaction_variant	SYT17
structural_interaction_variant	SYT17

structural_interaction_variant	SYT17
structural_interaction_variant	CLEC19A
structural_interaction_variant	CLEC19A
structural_interaction_variant	TMC5
splice_acceptor_variant&intron_variant	TMC5
structural_interaction_variant	TMC5
frameshift_variant	TMC5
structural_interaction_variant	TMC5
missense_variant&splice_region_variant	TMC5
structural_interaction_variant	GDE1
structural_interaction_variant	CCP110
structural_interaction_variant	CCP110
structural_interaction_variant	CCP110
splice_donor_variant&intron_variant	CCP110
structural_interaction_variant	CCP110
structural_interaction_variant	C16orf62
structural_interaction_variant	C16orf62
missense_variant&splice_region_variant	C16orf62
structural_interaction_variant	C16orf62
stop_gained	C16orf62
structural_interaction_variant	C16orf62
structural_interaction_variant	KNOP1
structural_interaction_variant	IQCK
splice_acceptor_variant&intron_variant	IQCK
structural_interaction_variant	GPR139
structural_interaction_variant	GPR139
structural_interaction_variant	GP2
structural_interaction_variant	GP2
structural_interaction_variant	GP2
stop_gained	UMOD
structural_interaction_variant	UMOD
structural_interaction_variant	UMOD
structural_interaction_variant	UMOD
structural_interaction_variant	UMOD
structural_interaction_variant	UMOD
structural_interaction_variant	PDILT
structural_interaction_variant	PDILT
structural_interaction_variant	PDILT
structural_interaction_variant	PDILT
structural_interaction_variant	PDILT
structural_interaction_variant	ACSM5
structural_interaction_variant	ACSM5
structural_interaction_variant	ACSM5
structural_interaction_variant	ACSM2A
structural_interaction_variant	ACSM1
structural_interaction_variant	ACSM1
frameshift_variant	ACSM1
frameshift_variant	THUMPD1

structural_interaction_variant	THUMPD1
structural_interaction_variant	ACSM3
frameshift_variant	ACSM3
structural_interaction_variant	ACSM3
structural_interaction_variant	ACSM3
stop_gained	ERI2
frameshift_variant	ERI2
structural_interaction_variant	AC004381.6
structural_interaction_variant	AC004381.6
structural_interaction_variant	AC004381.6
structural_interaction_variant	DCUN1D3
structural_interaction_variant	DNAH3
structural_interaction_variant	DNAH3
structural_interaction_variant	DNAH3
structural_interaction_variant	DNAH3
structural_interaction_variant	DNAH3
frameshift_variant	DNAH3
structural_interaction_variant	DNAH3
structural_interaction_variant	DNAH3
structural_interaction_variant	DNAH3
structural_interaction_variant	DNAH3
structural_interaction_variant	DNAH3
structural_interaction_variant	DNAH3
structural_interaction_variant	DNAH3
structural_interaction_variant	DNAH3
missense_variant&splice_region_variant	DNAH3
structural_interaction_variant	DNAH3
structural_interaction_variant	DNAH3
structural_interaction_variant	DNAH3
frameshift_variant	ZP2
structural_interaction_variant	ZP2
structural_interaction_variant	ZP2
structural_interaction_variant	ZP2
structural_interaction_variant	ZP2
missense_variant&splice_region_variant	ZP2
structural_interaction_variant	ANKS4B
structural_interaction_variant	ANKS4B
structural_interaction_variant	ANKS4B
structural_interaction_variant	ANKS4B
structural_interaction_variant	ANKS4B
frameshift_variant	ANKS4B
structural_interaction_variant	CRYM
structural_interaction_variant	METTL9
missense_variant&splice_region_variant	IGSF6
missense_variant&splice_region_variant	OTOA
structural_interaction_variant	UQCRC2
structural_interaction_variant	UQCRC2

splice_donor_variant&intron_variant	UQCRC2
structural_interaction_variant	UQCRC2
structural_interaction_variant	PDZD9
structural_interaction_variant	VWA3A
stop_gained	VWA3A
structural_interaction_variant	VWA3A
splice_donor_variant&intron_variant	VWA3A
structural_interaction_variant	EEF2K
structural_interaction_variant	EEF2K
structural_interaction_variant	EEF2K
structural_interaction_variant	POLR3E
missense_variant&splice_region_variant	POLR3E
structural_interaction_variant	POLR3E
structural_interaction_variant	POLR3E
frameshift_variant	POLR3E
structural_interaction_variant	POLR3E
structural_interaction_variant	CDR2
structural_interaction_variant	HS3ST2
structural_interaction_variant	USP31
structural_interaction_variant	USP31
structural_interaction_variant	USP31
structural_interaction_variant	USP31
structural_interaction_variant	GGA2
structural_interaction_variant	EARS2
structural_interaction_variant	PLK1
structural_interaction_variant	ERN2
structural_interaction_variant	ERN2
missense_variant&splice_region_variant	ERN2
structural_interaction_variant	CHP2
stop_gained	CHP2
structural_interaction_variant	CHP2
structural_interaction_variant	PRKCB
structural_interaction_variant	RBBP6
structural_interaction_variant	RBBP6
missense_variant&splice_region_variant	RBBP6
structural_interaction_variant	RBBP6
structural_interaction_variant	RBBP6
structural_interaction_variant	RBBP6
structural_interaction_variant	RBBP6
structural_interaction_variant	RBBP6
structural_interaction_variant	RBBP6
structural_interaction_variant	RBBP6
structural_interaction_variant	TNRC6A
structural_interaction_variant	TNRC6A
structural_interaction_variant	TNRC6A
structural_interaction_variant	TNRC6A
structural_interaction_variant	TNRC6A
structural_interaction_variant	TNRC6A

structural_interaction_variant	TNRC6A
structural_interaction_variant	TNRC6A
structural_interaction_variant	TNRC6A
structural_interaction_variant	TNRC6A
structural_interaction_variant	TNRC6A
structural_interaction_variant	SLC5A11
structural_interaction_variant	SLC5A11
structural_interaction_variant	SLC5A11
structural_interaction_variant	SLC5A11
structural_interaction_variant	SLC5A11
structural_interaction_variant	LCMT1
structural_interaction_variant	LCMT1
structural_interaction_variant	LCMT1
structural_interaction_variant	LCMT1
structural_interaction_variant	LCMT1
structural_interaction_variant	ZKSCAN2
structural_interaction_variant	ZKSCAN2
structural_interaction_variant	ZKSCAN2
structural_interaction_variant	ZKSCAN2
structural_interaction_variant	HS3ST4
structural_interaction_variant	KDM8
structural_interaction_variant	KDM8
structural_interaction_variant	NSMCE1
missense_variant&splice_region_variant	NSMCE1
structural_interaction_variant	IL4R
structural_interaction_variant	IL4R
structural_interaction_variant	IL4R
structural_interaction_variant	GTF3C1
structural_interaction_variant	GTF3C1
structural_interaction_variant	GTF3C1
structural_interaction_variant	GTF3C1
structural_interaction_variant	GTF3C1
structural_interaction_variant	GTF3C1
structural_interaction_variant	GTF3C1
structural_interaction_variant	XPO6
structural_interaction_variant	XPO6
structural_interaction_variant	IL27
frameshift_variant	IL27
structural_interaction_variant	NUPR1
frameshift_variant	NUPR1
structural_interaction_variant	SULT1A1
structural_interaction_variant	ATXN2L
structural_interaction_variant	ATXN2L
structural_interaction_variant	ATXN2L
structural_interaction_variant	ATXN2L
structural_interaction_variant	ATXN2L
structural_interaction_variant	ATXN2L
structural_interaction_variant	SH2B1

structural_interaction_variant	SH2B1
structural_interaction_variant	SH2B1
structural_interaction_variant	SH2B1
structural_interaction_variant	SH2B1
structural_interaction_variant	SH2B1
structural_interaction_variant	SH2B1
structural_interaction_variant	ATP2A1
structural_interaction_variant	ATP2A1
structural_interaction_variant	ATP2A1
structural_interaction_variant	SPNS1
structural_interaction_variant	LAT
structural_interaction_variant	SPN
structural_interaction_variant	SPN
structural_interaction_variant	SPN
structural_interaction_variant	QPRT
structural_interaction_variant	ZG16
structural_interaction_variant	ZG16
structural_interaction_variant	ZG16
structural_interaction_variant	ZG16
structural_interaction_variant	KIF22
structural_interaction_variant	MAZ
structural_interaction_variant	PAGR1
structural_interaction_variant	MVP
structural_interaction_variant	MVP
structural_interaction_variant	MVP
structural_interaction_variant	MVP
structural_interaction_variant	MVP
structural_interaction_variant	MVP
stop_gained	MVP
structural_interaction_variant	MVP
structural_interaction_variant	CDIPT
structural_interaction_variant	CDIPT
structural_interaction_variant	CDIPT
structural_interaction_variant	SEZ6L2
frameshift_variant	SEZ6L2
structural_interaction_variant	SEZ6L2
structural_interaction_variant	SEZ6L2
structural_interaction_variant	ASPHD1
structural_interaction_variant	ASPHD1
structural_interaction_variant	KCTD13
structural_interaction_variant	TMEM219
structural_interaction_variant	TAOK2
structural_interaction_variant	TAOK2
structural_interaction_variant	TAOK2
structural_interaction_variant	TAOK2
structural_interaction_variant	TAOK2
frameshift_variant	HIRIP3
structural_interaction_variant	HIRIP3

structural_interaction_variant	HIRIP3
structural_interaction_variant	HIRIP3
structural_interaction_variant	HIRIP3
splice_acceptor_variant&intron_variant	HIRIP3
structural_interaction_variant	HIRIP3
start_lost	HIRIP3
structural_interaction_variant	DOC2A
structural_interaction_variant	C16orf92
structural_interaction_variant	ALDOA
structural_interaction_variant	ALDOA
structural_interaction_variant	ALDOA
structural_interaction_variant	PPP4C
structural_interaction_variant	TBX6
structural_interaction_variant	GDPD3
structural_interaction_variant	GDPD3
structural_interaction_variant	GDPD3
structural_interaction_variant	MAPK3
structural_interaction_variant	MAPK3
structural_interaction_variant	MAPK3
structural_interaction_variant	TBC1D10B
structural_interaction_variant	TBC1D10B
structural_interaction_variant	MYLPF
structural_interaction_variant	SEPT1
structural_interaction_variant	SEPT1
structural_interaction_variant	ZNF48
structural_interaction_variant	ZNF48
structural_interaction_variant	ZNF48
splice_donor_variant&intron_variant	DCTPP1
structural_interaction_variant	DCTPP1
frameshift_variant	ITGAL
structural_interaction_variant	ITGAL
structural_interaction_variant	ITGAL
structural_interaction_variant	ITGAL
structural_interaction_variant	ITGAL
structural_interaction_variant	ITGAL
structural_interaction_variant	ITGAL
structural_interaction_variant	ZNF764
structural_interaction_variant	ZNF764
structural_interaction_variant	ZNF764
structural_interaction_variant	ZNF785
structural_interaction_variant	ZNF785
structural_interaction_variant	PRR14
structural_interaction_variant	FBRS
structural_interaction_variant	FBRS
stop_gained	PHKG2
structural_interaction_variant	C16orf93
structural_interaction_variant	RNF40
structural_interaction_variant	RNF40

structural_interaction_variant	RNF40
structural_interaction_variant	RNF40
structural_interaction_variant	ZNF629
structural_interaction_variant	ZNF629
structural_interaction_variant	BCL7C
structural_interaction_variant	FBXL19
structural_interaction_variant	ORAI3
structural_interaction_variant	ZNF668
structural_interaction_variant	ZNF646
structural_interaction_variant	ZNF646
structural_interaction_variant	ZNF646
structural_interaction_variant	ZNF646
structural_interaction_variant	ZNF646
structural_interaction_variant	ZNF646
structural_interaction_variant	ZNF646
structural_interaction_variant	ZNF646
structural_interaction_variant	PRSS53
structural_interaction_variant	PRSS53
frameshift_variant	RP11-196G11.1
structural_interaction_variant	BCKDK
structural_interaction_variant	PRSS36
structural_interaction_variant	PRSS36
splice_donor_variant&intron_variant	PRSS36
structural_interaction_variant	PRSS36
splice_acceptor_variant&intron_variant	PRSS36
frameshift_variant	PRSS36
structural_interaction_variant	PYCARD
structural_interaction_variant	PYCARD
structural_interaction_variant	PYDC1
frameshift_variant&splice_region_variant	ITGAM
structural_interaction_variant	ITGAM
structural_interaction_variant	ITGAX
splice_donor_variant&intron_variant	ITGAX
structural_interaction_variant	ITGAD
structural_interaction_variant	ITGAD
structural_interaction_variant	ITGAD
structural_interaction_variant	ITGAD
structural_interaction_variant	ARMC5
structural_interaction_variant	TGFB1I1
structural_interaction_variant	TGFB1I1
structural_interaction_variant	SLC5A2
structural_interaction_variant	SLC5A2
structural_interaction_variant	SLC5A2
stop_gained	C16orf58
structural_interaction_variant	C16orf58
structural_interaction_variant	C16orf58
structural_interaction_variant	ZNF267
structural_interaction_variant	ZNF267

structural_interaction_variant	ZNF267
structural_interaction_variant	IGHV3OR16-13
structural_interaction_variant	SHCBP1
structural_interaction_variant	SHCBP1
structural_interaction_variant	SHCBP1
splice_donor_variant&intron_variant	SHCBP1
structural_interaction_variant	SHCBP1
frameshift_variant	SHCBP1
structural_interaction_variant	VPS35
structural_interaction_variant	MYLK3
structural_interaction_variant	MYLK3
structural_interaction_variant	MYLK3
frameshift_variant	MYLK3
structural_interaction_variant	NETO2
structural_interaction_variant	NETO2
stop_gained	NETO2
structural_interaction_variant	NETO2
structural_interaction_variant	ITFG1
structural_interaction_variant	ITFG1
structural_interaction_variant	ITFG1
structural_interaction_variant	ITFG1
structural_interaction_variant	ITFG1
structural_interaction_variant	ABCC12
structural_interaction_variant	ABCC12
structural_interaction_variant	ABCC12
structural_interaction_variant	ABCC12
frameshift_variant	ABCC12
structural_interaction_variant	ABCC12
structural_interaction_variant	ABCC11
structural_interaction_variant	ABCC11
structural_interaction_variant	ABCC11
splice_donor_variant&intron_variant	ABCC11
structural_interaction_variant	LONP2
missense_variant&splice_region_variant	N4BP1
structural_interaction_variant	N4BP1
structural_interaction_variant	C16orf78
structural_interaction_variant	C16orf78
structural_interaction_variant	ZNF423
structural_interaction_variant	ZNF423
structural_interaction_variant	ZNF423
structural_interaction_variant	HEATR3
structural_interaction_variant	HEATR3
structural_interaction_variant	HEATR3
structural_interaction_variant	HEATR3
structural_interaction_variant	HEATR3
missense_variant&splice_region_variant	HEATR3
structural_interaction_variant	ADCY7
structural_interaction_variant	ADCY7

structural_interaction_variant	ADCY7
missense_variant&splice_region_variant	ADCY7
structural_interaction_variant	ADCY7
structural_interaction_variant	ADCY7
frameshift_variant	BRD7
structural_interaction_variant	NKD1
structural_interaction_variant	NKD1
stop_gained	NOD2
structural_interaction_variant	NOD2
structural_interaction_variant	NOD2
structural_interaction_variant	TOX3
missense_variant&splice_region_variant	CHD9
structural_interaction_variant	CHD9
structural_interaction_variant	CHD9
missense_variant&splice_region_variant	CHD9
structural_interaction_variant	CHD9
structural_interaction_variant	CHD9
structural_interaction_variant	CHD9
structural_interaction_variant	CHD9
structural_interaction_variant	CHD9
structural_interaction_variant	RBL2
structural_interaction_variant	RBL2
structural_interaction_variant	RBL2
structural_interaction_variant	RBL2
structural_interaction_variant	AKTIP
frameshift_variant	RPGRIP1L
stop_gained	RPGRIP1L
structural_interaction_variant	FTO
structural_interaction_variant	IRX3
structural_interaction_variant	IRX3
structural_interaction_variant	IRX3
structural_interaction_variant	IRX3
structural_interaction_variant	IRX6
structural_interaction_variant	IRX6
structural_interaction_variant	IRX6
structural_interaction_variant	IRX6
structural_interaction_variant	LPCAT2
structural_interaction_variant	LPCAT2
structural_interaction_variant	SLC6A2
structural_interaction_variant	CES1
splice_acceptor_variant&intron_variant	CES1
frameshift_variant	CES5A
structural_interaction_variant	CES5A
stop_gained	CES5A
structural_interaction_variant	CES5A
structural_interaction_variant	AMFR
structural_interaction_variant	AMFR
missense_variant&splice_region_variant	OGFOD1

structural_interaction_variant	OGFOD1
structural_interaction_variant	BBS2
structural_interaction_variant	MT2A
structural_interaction_variant	MT1B
structural_interaction_variant	MT1G
structural_interaction_variant	NUP93
structural_interaction_variant	SLC12A3
structural_interaction_variant	SLC12A3
structural_interaction_variant	HERPUD1
structural_interaction_variant	HERPUD1
structural_interaction_variant	HERPUD1
structural_interaction_variant	HERPUD1
structural_interaction_variant	HERPUD1
structural_interaction_variant	HERPUD1
structural_interaction_variant	NLRC5
structural_interaction_variant	NLRC5
structural_interaction_variant	NLRC5
structural_interaction_variant	NLRC5
structural_interaction_variant	NLRC5
structural_interaction_variant	NLRC5
stop_gained&splice_region_variant	NLRC5
structural_interaction_variant	NLRC5
structural_interaction_variant	NLRC5
structural_interaction_variant	CPNE2
structural_interaction_variant	CCL22
structural_interaction_variant	CX3CL1
structural_interaction_variant	CX3CL1
structural_interaction_variant	CX3CL1
structural_interaction_variant	POLR2C
splice_acceptor_variant&intron_variant	POLR2C
structural_interaction_variant	DOK4
structural_interaction_variant	DOK4
structural_interaction_variant	CCDC102A
structural_interaction_variant	CCDC102A
structural_interaction_variant	CCDC102A
structural_interaction_variant	GPR114
structural_interaction_variant	GPR114
stop_gained	GPR114
structural_interaction_variant	GPR114
structural_interaction_variant	GPR114
structural_interaction_variant	GPR56
structural_interaction_variant	GPR56
structural_interaction_variant	GPR56
structural_interaction_variant	GPR56
structural_interaction_variant	GPR56
structural_interaction_variant	GPR97
structural_interaction_variant	GPR97
structural_interaction_variant	GPR97

structural_interaction_variant	GPR97
structural_interaction_variant	CCDC135
structural_interaction_variant	KATNB1
frameshift_variant	KATNB1
structural_interaction_variant	CTD-2600O9.1
frameshift_variant	CNGB1
frameshift_variant	CNGB1
frameshift_variant	CNGB1
frameshift_variant	CNGB1
structural_interaction_variant	CNGB1
stop_gained	CNGB1
structural_interaction_variant	TEPP
structural_interaction_variant	TEPP
stop_gained	MMP15
structural_interaction_variant	MMP15
structural_interaction_variant	C16orf80
structural_interaction_variant	C16orf80
structural_interaction_variant	CSNK2A2
structural_interaction_variant	CCDC113
structural_interaction_variant	PRSS54
structural_interaction_variant	GINS3
missense_variant&splice_region_variant	GINS3
structural_interaction_variant	NDRG4
structural_interaction_variant	SETD6
splice_donor_variant&intron_variant	SETD6
structural_interaction_variant	CNOT1
structural_interaction_variant	CNOT1
structural_interaction_variant	CNOT1
structural_interaction_variant	CNOT1
structural_interaction_variant	CNOT1
structural_interaction_variant	CNOT1
structural_interaction_variant	SLC38A7
structural_interaction_variant	SLC38A7
structural_interaction_variant	SLC38A7
structural_interaction_variant	GOT2
structural_interaction_variant	GOT2
structural_interaction_variant	GOT2
structural_interaction_variant	CDH8
structural_interaction_variant	CDH8
structural_interaction_variant	CDH8
structural_interaction_variant	CDH8
structural_interaction_variant	CDH11
structural_interaction_variant	CDH11
structural_interaction_variant	CDH5
structural_interaction_variant	CDH5
structural_interaction_variant	CDH5
structural_interaction_variant	CDH5
structural_interaction_variant	CDH5

structural_interaction_variant	CDH5
structural_interaction_variant	TK2
frameshift_variant	CMTM1
structural_interaction_variant	CMTM1
structural_interaction_variant	CMTM1
frameshift_variant	CMTM2
structural_interaction_variant	CMTM2
structural_interaction_variant	CMTM3
structural_interaction_variant	DYNC1LI2
structural_interaction_variant	DYNC1LI2
structural_interaction_variant	DYNC1LI2
structural_interaction_variant	DYNC1LI2
structural_interaction_variant	NAE1
structural_interaction_variant	CA7
structural_interaction_variant	PDP2
structural_interaction_variant	PDP2
structural_interaction_variant	PDP2
stop_gained	CDH16
structural_interaction_variant	CDH16
splice_acceptor_variant&intron_variant	CDH16
structural_interaction_variant	CDH16
structural_interaction_variant	CDH16
structural_interaction_variant	FAM96B
splice_acceptor_variant&intron_variant	CES2
frameshift_variant	CES2
structural_interaction_variant	CES2
structural_interaction_variant	CES2
structural_interaction_variant	CES2
structural_interaction_variant	CES2
structural_interaction_variant	CES2
frameshift_variant	CES3
structural_interaction_variant	CES3
structural_interaction_variant	CES3
structural_interaction_variant	CES3
structural_interaction_variant	CES4A
structural_interaction_variant	CES4A
structural_interaction_variant	CES4A
structural_interaction_variant	CES4A
structural_interaction_variant	CBFB
structural_interaction_variant	CBFB
structural_interaction_variant	B3GNT9
structural_interaction_variant	HSF4
missense_variant&splice_region_variant	EXOC3L1
structural_interaction_variant	EXOC3L1
structural_interaction_variant	EXOC3L1
splice_donor_variant&intron_variant	EXOC3L1
stop_gained	EXOC3L1
structural_interaction_variant	EXOC3L1

frameshift_variant	EXOC3L1
structural_interaction_variant	E2F4
structural_interaction_variant	E2F4
structural_interaction_variant	ELMO3
structural_interaction_variant	ELMO3
structural_interaction_variant	ELMO3
structural_interaction_variant	ELMO3
structural_interaction_variant	ELMO3
splice_donor_variant&intron_variant	TMEM208
structural_interaction_variant	FHOD1
structural_interaction_variant	FHOD1
structural_interaction_variant	FHOD1
structural_interaction_variant	FHOD1
structural_interaction_variant	FHOD1
structural_interaction_variant	FHOD1
frameshift_variant	FHOD1
structural_interaction_variant	FHOD1
structural_interaction_variant	SLC9A5
structural_interaction_variant	SLC9A5
structural_interaction_variant	SLC9A5
missense_variant&splice_region_variant	PLEKHG4
structural_interaction_variant	PLEKHG4
frameshift_variant	PLEKHG4
structural_interaction_variant	PLEKHG4
structural_interaction_variant	KCTD19
structural_interaction_variant	KCTD19
structural_interaction_variant	LRRC36
structural_interaction_variant	LRRC36
structural_interaction_variant	LRRC36
structural_interaction_variant	LRRC36
structural_interaction_variant	LRRC36
structural_interaction_variant	TPPP3
structural_interaction_variant	TPPP3
structural_interaction_variant	ATP6V0D1
structural_interaction_variant	ATP6V0D1
structural_interaction_variant	ATP6V0D1
structural_interaction_variant	FAM65A
structural_interaction_variant	FAM65A
structural_interaction_variant	FAM65A
structural_interaction_variant	FAM65A
structural_interaction_variant	FAM65A
structural_interaction_variant	RLTPR
structural_interaction_variant	RLTPR
structural_interaction_variant	RLTPR
structural_interaction_variant	RLTPR
structural_interaction_variant	RLTPR
structural_interaction_variant	RLTPR
structural_interaction_variant	ACD

structural_interaction_variant	ACD
structural_interaction_variant	ACD
structural_interaction_variant	ACD
structural_interaction_variant	PARD6A
structural_interaction_variant	PARD6A
frameshift_variant	ENKD1
structural_interaction_variant	C16orf86
structural_interaction_variant	C16orf86
structural_interaction_variant	GFOD2
structural_interaction_variant	GFOD2
structural_interaction_variant	RANBP10
structural_interaction_variant	RANBP10
structural_interaction_variant	TSNAXIP1
stop_gained	TSNAXIP1
missense_variant&splice_region_variant	TSNAXIP1
structural_interaction_variant	TSNAXIP1
structural_interaction_variant	CENPT
structural_interaction_variant	CENPT
structural_interaction_variant	THAP11
structural_interaction_variant	THAP11
structural_interaction_variant	THAP11
structural_interaction_variant	THAP11
missense_variant&splice_region_variant	EDC4
structural_interaction_variant	EDC4
structural_interaction_variant	EDC4
structural_interaction_variant	EDC4
structural_interaction_variant	EDC4
structural_interaction_variant	EDC4
structural_interaction_variant	EDC4
frameshift_variant	NRN1L
structural_interaction_variant	NRN1L
structural_interaction_variant	PSKH1
splice_donor_variant&intron_variant	CTRL
structural_interaction_variant	CTRL
structural_interaction_variant	CTRL
structural_interaction_variant	LCAT
structural_interaction_variant	SLC12A4
structural_interaction_variant	SLC12A4
structural_interaction_variant	SLC12A4
structural_interaction_variant	SLC12A4
structural_interaction_variant	DPEP3
structural_interaction_variant	DPEP3
splice_donor_variant&intron_variant	DPEP3
structural_interaction_variant	DPEP3
structural_interaction_variant	DPEP2
splice_donor_variant&intron_variant	DPEP2
frameshift_variant	DUS2
structural_interaction_variant	DUS2

structural_interaction_variant	DUS2
structural_interaction_variant	DUS2
structural_interaction_variant	NFATC3
structural_interaction_variant	NFATC3
structural_interaction_variant	NFATC3
structural_interaction_variant	NFATC3
structural_interaction_variant	NFATC3
stop_gained	ESRP2
frameshift_variant	ESRP2
structural_interaction_variant	PLA2G15
structural_interaction_variant	PLA2G15
stop_gained	PLA2G15
structural_interaction_variant	PLA2G15
frameshift_variant	SLC7A6
structural_interaction_variant	SLC7A6
structural_interaction_variant	SLC7A6
stop_gained	SLC7A6
structural_interaction_variant	SLC7A6OS
structural_interaction_variant	SMPD3
structural_interaction_variant	SMPD3
structural_interaction_variant	SMPD3
structural_interaction_variant	SMPD3
structural_interaction_variant	ZFP90
structural_interaction_variant	ZFP90
structural_interaction_variant	ZFP90
structural_interaction_variant	ZFP90
stop_gained	ZFP90
structural_interaction_variant	ZFP90
structural_interaction_variant	ZFP90
frameshift_variant	CDH3
structural_interaction_variant	CDH3
structural_interaction_variant	CDH3
structural_interaction_variant	TANGO6
frameshift_variant	TANGO6
structural_interaction_variant	TANGO6
stop_gained	TANGO6
structural_interaction_variant	TANGO6
structural_interaction_variant	TANGO6
structural_interaction_variant	HAS3
structural_interaction_variant	HAS3
structural_interaction_variant	CIRH1A
structural_interaction_variant	CIRH1A
structural_interaction_variant	RP11-343C2.12
structural_interaction_variant	NFAT5
structural_interaction_variant	NFAT5
structural_interaction_variant	NFAT5
structural_interaction_variant	NFAT5
structural_interaction_variant	NFAT5

structural_interaction_variant	NFAT5
structural_interaction_variant	NFAT5
structural_interaction_variant	NFAT5
structural_interaction_variant	NFAT5
structural_interaction_variant	NQO1
structural_interaction_variant	NOB1
structural_interaction_variant	WWP2
structural_interaction_variant	WWP2
structural_interaction_variant	WWP2
structural_interaction_variant	WWP2
structural_interaction_variant	WWP2
missense_variant&splice_region_variant	WWP2
structural_interaction_variant	WWP2
structural_interaction_variant	PDPR
structural_interaction_variant	PDPR
structural_interaction_variant	PDPR
structural_interaction_variant	DDX19B
structural_interaction_variant	DDX19B
splice_donor_variant&intron_variant	DDX19B
structural_interaction_variant	DDX19B
structural_interaction_variant	DDX19B
structural_interaction_variant	DDX19A
structural_interaction_variant	DDX19A
structural_interaction_variant	DDX19A
stop_gained&splice_region_variant	FUK
structural_interaction_variant	FUK
structural_interaction_variant	FUK
structural_interaction_variant	FUK
stop_gained	COG4
frameshift_variant	COG4
structural_interaction_variant	SF3B3
structural_interaction_variant	SF3B3
structural_interaction_variant	SF3B3
conservative_inframe_deletion&splice_region_varian	IL34
structural_interaction_variant	IL34
structural_interaction_variant	IL34
structural_interaction_variant	IL34
structural_interaction_variant	CMTR2
structural_interaction_variant	CMTR2
structural_interaction_variant	CALB2
structural_interaction_variant	CHST4
structural_interaction_variant	MARVELD3
structural_interaction_variant	MARVELD3
frameshift_variant	PHLPP2
frameshift_variant	PHLPP2
structural_interaction_variant	PHLPP2
structural_interaction_variant	PHLPP2
structural_interaction_variant	PHLPP2

structural_interaction_variant	PHLPP2
structural_interaction_variant	PHLPP2
structural_interaction_variant	PHLPP2
structural_interaction_variant	PHLPP2
structural_interaction_variant	PHLPP2
structural_interaction_variant	PHLPP2
structural_interaction_variant	PHLPP2
structural_interaction_variant	PHLPP2
structural_interaction_variant	PHLPP2
structural_interaction_variant	AP1G1
structural_interaction_variant	ZNF821
structural_interaction_variant	ZNF821
structural_interaction_variant	IST1
frameshift_variant	IST1
structural_interaction_variant	IST1
stop_gained	DHODH
structural_interaction_variant	DHODH
start_lost&splice_region_variant	HP
frameshift_variant	TXNL4B
structural_interaction_variant	DHX38
structural_interaction_variant	PMFBP1
structural_interaction_variant	ZFHX3
structural_interaction_variant	ZFHX3
structural_interaction_variant	ZFHX3
structural_interaction_variant	ZFHX3
structural_interaction_variant	ZFHX3
structural_interaction_variant	ZFHX3
structural_interaction_variant	ZFHX3
structural_interaction_variant	ZFHX3
frameshift_variant	ZFHX3
frameshift_variant	ZFHX3
structural_interaction_variant	ZFHX3
structural_interaction_variant	C16orf47
structural_interaction_variant	C16orf47
missense_variant&splice_region_variant	C16orf47
splice_acceptor_variant&intron_variant	C16orf47
structural_interaction_variant	GLG1
structural_interaction_variant	RFWD3
structural_interaction_variant	RFWD3
structural_interaction_variant	RFWD3
structural_interaction_variant	RFWD3
frameshift_variant	RFWD3
frameshift_variant	RFWD3
structural_interaction_variant	MLKL
structural_interaction_variant	MLKL
structural_interaction_variant	MLKL
structural_interaction_variant	MLKL
structural_interaction_variant	MLKL

structural_interaction_variant	MLKL
structural_interaction_variant	MLKL
structural_interaction_variant	WDR59
structural_interaction_variant	WDR59
structural_interaction_variant	LDHD
stop_gained	LDHD
missense_variant&splice_region_variant	ZFP1
structural_interaction_variant	ZFP1
frameshift_variant	ZFP1
structural_interaction_variant	ZFP1
structural_interaction_variant	CTRB1
structural_interaction_variant	BCAR1
structural_interaction_variant	BCAR1
structural_interaction_variant	BCAR1
structural_interaction_variant	BCAR1
structural_interaction_variant	BCAR1
structural_interaction_variant	CFDP1
structural_interaction_variant	TMEM170A
structural_interaction_variant	CHST6
structural_interaction_variant	GABARAPL2
structural_interaction_variant	ADAT1
structural_interaction_variant	ADAT1
structural_interaction_variant	ADAT1
stop_gained	ADAT1
stop_gained	ADAT1
structural_interaction_variant	ADAT1
structural_interaction_variant	CNTNAP4
structural_interaction_variant	CNTNAP4
structural_interaction_variant	CNTNAP4
structural_interaction_variant	CNTNAP4
structural_interaction_variant	CNTNAP4
frameshift_variant&stop_gained	CNTNAP4
structural_interaction_variant	CNTNAP4
structural_interaction_variant	CNTNAP4
structural_interaction_variant	CNTNAP4
structural_interaction_variant	CNTNAP4
structural_interaction_variant	MON1B
structural_interaction_variant	MON1B
structural_interaction_variant	MON1B
structural_interaction_variant	MON1B
structural_interaction_variant	MON1B
structural_interaction_variant	NUDT7
structural_interaction_variant	NUDT7
structural_interaction_variant	VAT1L
structural_interaction_variant	CLEC3A
structural_interaction_variant	CLEC3A
structural_interaction_variant	CLEC3A
structural_interaction_variant	MAF

structural_interaction_variant	DYNLRB2
structural_interaction_variant	CDYL2
structural_interaction_variant	CDYL2
structural_interaction_variant	ATMIN
structural_interaction_variant	ATMIN
structural_interaction_variant	C16orf46
structural_interaction_variant	C16orf46
structural_interaction_variant	C16orf46
structural_interaction_variant	PKD1L2
structural_interaction_variant	PKD1L2
structural_interaction_variant	PKD1L2
structural_interaction_variant	PKD1L2
structural_interaction_variant	PKD1L2
structural_interaction_variant	PKD1L2
structural_interaction_variant	PKD1L2
structural_interaction_variant	PKD1L2
structural_interaction_variant	PKD1L2
structural_interaction_variant	PKD1L2
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structural_interaction_variant	PKD1L2
structural_interaction_variant	PKD1L2
structural_interaction_variant	PKD1L2
structural_interaction_variant	PKD1L2
stop_gained	PKD1L2
structural_interaction_variant	PKD1L2
structural_interaction_variant	PKD1L2
missense_variant&splice_region_variant	PKD1L2
structural_interaction_variant	PKD1L2
structural_interaction_variant	PKD1L2
structural_interaction_variant	PKD1L2
structural_interaction_variant	PKD1L2
missense_variant&splice_region_variant	PKD1L2
structural_interaction_variant	PKD1L2
structural_interaction_variant	BCMO1
structural_interaction_variant	BCMO1
structural_interaction_variant	CMIP
structural_interaction_variant	CMIP
structural_interaction_variant	PLCG2
structural_interaction_variant	PLCG2
splice_donor_variant&intron_variant	PLCG2
structural_interaction_variant	PLCG2
structural_interaction_variant	PLCG2
structural_interaction_variant	PLCG2
structural_interaction_variant	PLCG2
structural_interaction_variant	PLCG2
structural_interaction_variant	PLCG2

structural_interaction_variant	HSD17B2
structural_interaction_variant	HSD17B2
structural_interaction_variant	HSD17B2
structural_interaction_variant	CDH13
structural_interaction_variant	CDH13
structural_interaction_variant	CDH13
structural_interaction_variant	HSBP1
structural_interaction_variant	RP11-505K9.4
structural_interaction_variant	MLYCD
structural_interaction_variant	MLYCD
structural_interaction_variant	OSGIN1
structural_interaction_variant	OSGIN1
structural_interaction_variant	NECAB2
structural_interaction_variant	NECAB2
structural_interaction_variant	NECAB2
stop_gained	NECAB2
stop_gained	NECAB2
structural_interaction_variant	NECAB2
structural_interaction_variant	SLC38A8
structural_interaction_variant	MBTPS1
frameshift_variant	MBTPS1
structural_interaction_variant	MBTPS1
structural_interaction_variant	HSDL1
structural_interaction_variant	HSDL1
structural_interaction_variant	DNAAF1
stop_gained	DNAAF1
frameshift_variant	DNAAF1
structural_interaction_variant	TAF1C
structural_interaction_variant	TAF1C
structural_interaction_variant	TAF1C
structural_interaction_variant	TAF1C
structural_interaction_variant	TAF1C
structural_interaction_variant	ADAD2
structural_interaction_variant	ADAD2
structural_interaction_variant	ADAD2
structural_interaction_variant	ADAD2
stop_gained	KCNG4
structural_interaction_variant	WFDC1
structural_interaction_variant	WFDC1
structural_interaction_variant	ATP2C2
structural_interaction_variant	ATP2C2
structural_interaction_variant	ATP2C2
splice_acceptor_variant&intron_variant	ATP2C2
structural_interaction_variant	ATP2C2
structural_interaction_variant	ATP2C2
frameshift_variant	ATP2C2
missense_variant&splice_region_variant	ATP2C2
structural_interaction_variant	TLDC1

structural_interaction_variant	TLDC1
structural_interaction_variant	TLDC1
structural_interaction_variant	TLDC1
structural_interaction_variant	TLDC1
structural_interaction_variant	KLHL36
structural_interaction_variant	KLHL36
missense_variant&splice_region_variant	USP10
missense_variant&splice_region_variant	CRISPLD2
structural_interaction_variant	CRISPLD2
structural_interaction_variant	ZDHHC7
structural_interaction_variant	ZDHHC7
structural_interaction_variant	ZDHHC7
structural_interaction_variant	KIAA0513
structural_interaction_variant	KIAA0513
stop_gained&disruptive_inframe_insertion	KIAA0513
structural_interaction_variant	KIAA0513
structural_interaction_variant	KIAA0513
structural_interaction_variant	FAM92B
missense_variant&splice_region_variant	FAM92B
structural_interaction_variant	GSE1
structural_interaction_variant	GSE1
structural_interaction_variant	GSE1
structural_interaction_variant	GSE1
structural_interaction_variant	GSE1
structural_interaction_variant	GSE1
structural_interaction_variant	GSE1
stop_gained	GINS2
structural_interaction_variant	GINS2
stop_gained	GINS2
structural_interaction_variant	MTHFSD
structural_interaction_variant	FOXC2
structural_interaction_variant	FOXL1
structural_interaction_variant	FOXL1
structural_interaction_variant	FBXO31
structural_interaction_variant	FBXO31
structural_interaction_variant	ZCCHC14
structural_interaction_variant	KLHDC4
structural_interaction_variant	KLHDC4
structural_interaction_variant	KLHDC4
structural_interaction_variant	KLHDC4
structural_interaction_variant	KLHDC4
structural_interaction_variant	SLC7A5
structural_interaction_variant	SLC7A5
structural_interaction_variant	ZFPM1
structural_interaction_variant	ZFPM1
structural_interaction_variant	ZC3H18
structural_interaction_variant	ZC3H18
structural_interaction_variant	ZC3H18

structural_interaction_variant	ZC3H18
structural_interaction_variant	ZC3H18
structural_interaction_variant	RNF166
structural_interaction_variant	CTU2
frameshift_variant	CTU2
structural_interaction_variant	PIEZO1
stop_gained	PIEZO1
stop_gained	PIEZO1
structural_interaction_variant	CDT1
structural_interaction_variant	CDT1
structural_interaction_variant	GALNS
structural_interaction_variant	TRAPPC2L
structural_interaction_variant	CBFA2T3
structural_interaction_variant	CBFA2T3
frameshift_variant	ACSF3
frameshift_variant	ACSF3
stop_gained	SLC22A31
stop_gained	ZNF778
structural_interaction_variant	ZNF778
structural_interaction_variant	ZNF778
structural_interaction_variant	ZNF778
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structural_interaction_variant	ZNF778
structural_interaction_variant	ZNF778
structural_interaction_variant	ZNF778
frameshift_variant	ZNF778
structural_interaction_variant	ZNF778
structural_interaction_variant	ANKRD11
structural_interaction_variant	ANKRD11
structural_interaction_variant	RPL13
structural_interaction_variant	CPNE7
structural_interaction_variant	CPNE7
structural_interaction_variant	CPNE7
structural_interaction_variant	CPNE7
structural_interaction_variant	DPEP1
structural_interaction_variant	SPATA33
structural_interaction_variant	CDK10
structural_interaction_variant	SPATA2L
structural_interaction_variant	ZNF276
structural_interaction_variant	SPIRE2
structural_interaction_variant	SPIRE2
structural_interaction_variant	SPIRE2
structural_interaction_variant	SPIRE2
structural_interaction_variant	SPIRE2
structural_interaction_variant	TCF25

missense_variant&splice_region_variant	TCF25
frameshift_variant	TUBB3
structural_interaction_variant	DEF8
structural_interaction_variant	DEF8
structural_interaction_variant	DEF8
structural_interaction_variant	CENPBD1
structural_interaction_variant	CENPBD1
structural_interaction_variant	CENPBD1
structural_interaction_variant	CENPBD1
splice_donor_variant&intron_variant	DBNDD1
structural_interaction_variant	DBNDD1
structural_interaction_variant	PRDM7
structural_interaction_variant	PRDM7
missense_variant&splice_region_variant	RPH3AL
structural_interaction_variant	C17orf97
structural_interaction_variant	VPS53
structural_interaction_variant	FAM57A
structural_interaction_variant	GEMIN4
structural_interaction_variant	GEMIN4
structural_interaction_variant	GEMIN4
stop_gained	GEMIN4
structural_interaction_variant	GEMIN4
structural_interaction_variant	GEMIN4
structural_interaction_variant	GLOD4
structural_interaction_variant	GLOD4
structural_interaction_variant	RNMTL1
structural_interaction_variant	RNMTL1
structural_interaction_variant	NXN
frameshift_variant	TIMM22
structural_interaction_variant	ABR
structural_interaction_variant	TUSC5
structural_interaction_variant	MYO1C
structural_interaction_variant	MYO1C
missense_variant&splice_region_variant	MYO1C
structural_interaction_variant	MYO1C
structural_interaction_variant	MYO1C
structural_interaction_variant	MYO1C
structural_interaction_variant	MYO1C
structural_interaction_variant	INPP5K
structural_interaction_variant	INPP5K
splice_donor_variant&splice_region_variant&3_prim	SLC43A2
structural_interaction_variant	SLC43A2
structural_interaction_variant	SCARF1
structural_interaction_variant	SCARF1
structural_interaction_variant	PRPF8
structural_interaction_variant	PRPF8
structural_interaction_variant	TLCD2
structural_interaction_variant	TLCD2

structural_interaction_variant	WDR81
structural_interaction_variant	SERPINF2
structural_interaction_variant	SERPINF2
structural_interaction_variant	SERPINF1
stop_gained	SMYD4
stop_gained	SMYD4
missense_variant&splice_region_variant	RPA1
structural_interaction_variant	RPA1
structural_interaction_variant	RPA1
structural_interaction_variant	RPA1
structural_interaction_variant	RPA1
structural_interaction_variant	RPA1
structural_interaction_variant	DPH1
structural_interaction_variant	DPH1
frameshift_variant	OVCA2
structural_interaction_variant	OVCA2
structural_interaction_variant	OVCA2
structural_interaction_variant	OVCA2
structural_interaction_variant	OVCA2
structural_interaction_variant	SMG6
structural_interaction_variant	SMG6
structural_interaction_variant	SMG6
structural_interaction_variant	SMG6
structural_interaction_variant	SRR
structural_interaction_variant	SRR
structural_interaction_variant	SRR
structural_interaction_variant	TSR1
missense_variant&splice_region_variant	TSR1
conservative_inframe_deletion	TSR1
structural_interaction_variant	TSR1
structural_interaction_variant	TSR1
structural_interaction_variant	TSR1
structural_interaction_variant	TSR1
structural_interaction_variant	SGSM2
structural_interaction_variant	SGSM2
structural_interaction_variant	SGSM2
structural_interaction_variant	SGSM2
structural_interaction_variant	METTL16
structural_interaction_variant	METTL16
structural_interaction_variant	CLUH
structural_interaction_variant	CLUH
structural_interaction_variant	CLUH
structural_interaction_variant	CLUH
structural_interaction_variant	CLUH
splice_donor_variant&intron_variant	CLUH
structural_interaction_variant	CLUH
structural_interaction_variant	RAP1GAP2
structural_interaction_variant	RAP1GAP2

structural_interaction_variant	RAP1GAP2
structural_interaction_variant	RAP1GAP2
structural_interaction_variant	RAP1GAP2
structural_interaction_variant	OR1D2
structural_interaction_variant	OR1D2
structural_interaction_variant	OR1A2
structural_interaction_variant	OR1A2
structural_interaction_variant	OR1A2
structural_interaction_variant	OR1A1
stop_gained	OR3A1
structural_interaction_variant	OR3A1
structural_interaction_variant	OR1E1
structural_interaction_variant	TRPV3
structural_interaction_variant	TRPV1
frameshift_variant	TRPV1
structural_interaction_variant	TRPV1
structural_interaction_variant	SHPK
structural_interaction_variant	CTNS
structural_interaction_variant	CTNS
missense_variant&splice_region_variant	P2RX5
structural_interaction_variant	P2RX5
structural_interaction_variant	ITGAE
structural_interaction_variant	GSG2
splice_acceptor_variant&intron_variant	ITGAE
structural_interaction_variant	ITGAE
structural_interaction_variant	ITGAE
structural_interaction_variant	ITGAE
structural_interaction_variant	ITGAE
structural_interaction_variant	ITGAE
structural_interaction_variant	ITGAE
structural_interaction_variant	C17orf85
structural_interaction_variant	C17orf85
structural_interaction_variant	C17orf85
structural_interaction_variant	CAMKK1
stop_gained	CAMKK1
structural_interaction_variant	CAMKK1
structural_interaction_variant	P2RX1
structural_interaction_variant	ATP2A3
structural_interaction_variant	ZZEF1
structural_interaction_variant	ZZEF1
structural_interaction_variant	ZZEF1
structural_interaction_variant	ZZEF1
structural_interaction_variant	ZZEF1
structural_interaction_variant	ZZEF1
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structural_interaction_variant	ZZEF1
structural_interaction_variant	ZZEF1

structural_interaction_variant	ZZEF1
structural_interaction_variant	ZZEF1
missense_variant&splice_region_variant	ZZEF1
structural_interaction_variant	ZZEF1
structural_interaction_variant	ZZEF1
structural_interaction_variant	ZZEF1
structural_interaction_variant	ZZEF1
structural_interaction_variant	ZZEF1
structural_interaction_variant	ANKFY1
frameshift_variant	ANKFY1
structural_interaction_variant	ANKFY1
structural_interaction_variant	ANKFY1
splice_acceptor_variant&intron_variant	SPNS3
splice_donor_variant&intron_variant	SPNS2
frameshift_variant	SPNS2
structural_interaction_variant	SPNS2
structural_interaction_variant	SPNS2
structural_interaction_variant	SPNS2
structural_interaction_variant	SPNS2
structural_interaction_variant	MYBBP1A
structural_interaction_variant	MYBBP1A
structural_interaction_variant	MYBBP1A
missense_variant&splice_region_variant	MYBBP1A
structural_interaction_variant	MYBBP1A
structural_interaction_variant	MYBBP1A
structural_interaction_variant	MYBBP1A
structural_interaction_variant	GGT6
structural_interaction_variant	GGT6
structural_interaction_variant	GGT6
structural_interaction_variant	SMTNL2
structural_interaction_variant	ALOX15
structural_interaction_variant	ALOX15
structural_interaction_variant	PELP1
structural_interaction_variant	PELP1
structural_interaction_variant	PELP1
structural_interaction_variant	PELP1
structural_interaction_variant	PELP1
structural_interaction_variant	PELP1
structural_interaction_variant	PELP1
structural_interaction_variant	ARRB2
structural_interaction_variant	TM4SF5
structural_interaction_variant	VMO1
structural_interaction_variant	VMO1
structural_interaction_variant	GLTPD2
structural_interaction_variant	GLTPD2
structural_interaction_variant	PSMB6
structural_interaction_variant	PLD2
structural_interaction_variant	PLD2

splice_donor_variant&intron_variant	PLD2
stop_gained	PLD2
structural_interaction_variant	PLD2
structural_interaction_variant	MINK1
structural_interaction_variant	MINK1
structural_interaction_variant	MINK1
structural_interaction_variant	CHRNE
structural_interaction_variant	CHRNE
structural_interaction_variant	CHRNE
structural_interaction_variant	GP1BA
structural_interaction_variant	RNF167
structural_interaction_variant	ENO3
structural_interaction_variant	SPAG7
splice_donor_variant&intron_variant	SPAG7
structural_interaction_variant	CAMTA2
structural_interaction_variant	CAMTA2
structural_interaction_variant	CAMTA2
structural_interaction_variant	CAMTA2
structural_interaction_variant	CAMTA2
structural_interaction_variant	CAMTA2
structural_interaction_variant	CAMTA2
structural_interaction_variant	CAMTA2
structural_interaction_variant	CAMTA2
structural_interaction_variant	SLC52A1
structural_interaction_variant	SLC52A1
frameshift_variant	SLC52A1
structural_interaction_variant	SLC52A1
structural_interaction_variant	ZFP3
structural_interaction_variant	ZFP3
structural_interaction_variant	ZNF594
structural_interaction_variant	ZNF594
structural_interaction_variant	ZNF594
structural_interaction_variant	ZNF594
structural_interaction_variant	ZNF594
structural_interaction_variant	ZNF594
structural_interaction_variant	ZNF594
structural_interaction_variant	SCIMP
structural_interaction_variant	RABEP1
structural_interaction_variant	RABEP1
structural_interaction_variant	RABEP1
structural_interaction_variant	RABEP1
stop_gained&splice_region_variant	NUP88
missense_variant&splice_region_variant	RPAIN
structural_interaction_variant	C1QBP
structural_interaction_variant	DHX33
splice_donor_variant&intron_variant	DHX33
structural_interaction_variant	DHX33
structural_interaction_variant	DHX33
structural_interaction_variant	DHX33

structural_interaction_variant	MIS12
stop_gained	NLRP1
structural_interaction_variant	NLRP1
structural_interaction_variant	WSCD1
structural_interaction_variant	WSCD1
structural_interaction_variant	WSCD1
structural_interaction_variant	WSCD1
structural_interaction_variant	WSCD1
structural_interaction_variant	FAM64A
frameshift_variant	KIAA0753
structural_interaction_variant	KIAA0753
structural_interaction_variant	KIAA0753
structural_interaction_variant	XAF1
structural_interaction_variant	FBXO39
structural_interaction_variant	FBXO39
structural_interaction_variant	TEKT1
frameshift_variant	ALOX12
structural_interaction_variant	ALOX12
structural_interaction_variant	ALOX12
frameshift_variant	BCL6B
structural_interaction_variant	BCL6B
structural_interaction_variant	BCL6B
structural_interaction_variant	SLC16A13
structural_interaction_variant	CLEC10A
stop_gained	ASGR2
structural_interaction_variant	ASGR1
frameshift_variant	ACADVL
stop_gained	ACADVL
structural_interaction_variant	PHF23
structural_interaction_variant	PHF23
structural_interaction_variant	CTDNEP1
structural_interaction_variant	ELP5
structural_interaction_variant	CLDN7
structural_interaction_variant	CLDN7
structural_interaction_variant	CLDN7
structural_interaction_variant	SLC2A4
structural_interaction_variant	SLC2A4
structural_interaction_variant	GPS2
structural_interaction_variant	GPS2
structural_interaction_variant	GPS2
missense_variant&splice_region_variant	GPS2
structural_interaction_variant	GPS2
structural_interaction_variant	NEURL4
structural_interaction_variant	NEURL4
structural_interaction_variant	NEURL4
structural_interaction_variant	NEURL4
structural_interaction_variant	NEURL4
structural_interaction_variant	NEURL4

structural_interaction_variant	ACAP1
structural_interaction_variant	ACAP1
structural_interaction_variant	ACAP1
structural_interaction_variant	ACAP1
structural_interaction_variant	ACAP1
structural_interaction_variant	ACAP1
structural_interaction_variant	TMEM95
structural_interaction_variant	TMEM95
missense_variant&splice_region_variant	TMEM95
structural_interaction_variant	TNK1
structural_interaction_variant	TNK1
structural_interaction_variant	TNK1
structural_interaction_variant	TNK1
structural_interaction_variant	TNK1
stop_gained	TNK1
structural_interaction_variant	TNK1
structural_interaction_variant	TMEM256-PLSCR3
frameshift_variant	TMEM256
structural_interaction_variant	SPEM1
stop_gained	SPEM1
structural_interaction_variant	SPEM1
stop_gained	SPEM1
structural_interaction_variant	C17orf74
stop_gained	C17orf74
structural_interaction_variant	C17orf74
structural_interaction_variant	C17orf74
structural_interaction_variant	FGF11
structural_interaction_variant	FGF11
splice_donor_variant&intron_variant	FGF11
structural_interaction_variant	FGF11
structural_interaction_variant	FGF11
splice_donor_variant&intron_variant	CHRNB1
structural_interaction_variant	ZBTB4
structural_interaction_variant	ZBTB4
structural_interaction_variant	ZBTB4
structural_interaction_variant	ZBTB4
structural_interaction_variant	SENP3
structural_interaction_variant	EIF4A1
structural_interaction_variant	EIF4A1
structural_interaction_variant	EIF4A1
structural_interaction_variant	EIF4A1
structural_interaction_variant	EIF4A1
structural_interaction_variant	EIF4A1
splice_donor_variant&intron_variant	CD68
structural_interaction_variant	MPDU1
structural_interaction_variant	SOX15
structural_interaction_variant	SOX15
structural_interaction_variant	FXR2

structural_interaction_variant	FXR2
structural_interaction_variant	FXR2
structural_interaction_variant	FXR2
structural_interaction_variant	SHBG
structural_interaction_variant	ATP1B2
structural_interaction_variant	ATP1B2
structural_interaction_variant	WRAP53
frameshift_variant	DNAH2
structural_interaction_variant	DNAH2
structural_interaction_variant	DNAH2
structural_interaction_variant	DNAH2
structural_interaction_variant	DNAH2
structural_interaction_variant	DNAH2
structural_interaction_variant	DNAH2
structural_interaction_variant	DNAH2
stop_gained	DNAH2
frameshift_variant&splice_donor_variant&splice_reg	DNAH2
structural_interaction_variant	DNAH2
structural_interaction_variant	DNAH2
structural_interaction_variant	DNAH2
structural_interaction_variant	DNAH2
structural_interaction_variant	DNAH2
structural_interaction_variant	DNAH2
structural_interaction_variant	DNAH2
structural_interaction_variant	DNAH2
structural_interaction_variant	DNAH2
structural_interaction_variant	KDM6B
structural_interaction_variant	KDM6B
structural_interaction_variant	KDM6B
structural_interaction_variant	KDM6B
structural_interaction_variant	KDM6B
structural_interaction_variant	KDM6B
structural_interaction_variant	KDM6B
structural_interaction_variant	KDM6B
structural_interaction_variant	KDM6B
frameshift_variant	LSMD1
structural_interaction_variant	CYB5D1
structural_interaction_variant	KCNAB3
structural_interaction_variant	KCNAB3
structural_interaction_variant	KCNAB3
structural_interaction_variant	KCNAB3
structural_interaction_variant	KCNAB3
structural_interaction_variant	KCNAB3
structural_interaction_variant	CNTROB
structural_interaction_variant	CNTROB
structural_interaction_variant	CNTROB
structural_interaction_variant	CNTROB

structural_interaction_variant	GUCY2D
structural_interaction_variant	ALOX15B
structural_interaction_variant	ALOX15B
structural_interaction_variant	ALOX15B
structural_interaction_variant	ALOX15B
structural_interaction_variant	ALOX15B
structural_interaction_variant	ALOX15B
structural_interaction_variant	ALOX12B
frameshift_variant	AC129492.6
stop_gained	ALOXE3
structural_interaction_variant	ALOXE3
structural_interaction_variant	PER1
structural_interaction_variant	PER1
structural_interaction_variant	PER1
structural_interaction_variant	PER1
structural_interaction_variant	PER1
structural_interaction_variant	PER1
structural_interaction_variant	PER1
structural_interaction_variant	PER1
missense_variant&splice_region_variant	PER1
structural_interaction_variant	PER1
structural_interaction_variant	VAMP2
structural_interaction_variant	TMEM107
structural_interaction_variant	AURKB
structural_interaction_variant	AURKB
structural_interaction_variant	AURKB
frameshift_variant	CTC1
structural_interaction_variant	PFAS
structural_interaction_variant	PFAS
structural_interaction_variant	PFAS
structural_interaction_variant	PFAS
frameshift_variant	PFAS
structural_interaction_variant	PFAS
structural_interaction_variant	PFAS
structural_interaction_variant	PFAS
structural_interaction_variant	PFAS
frameshift_variant	RANGRF
structural_interaction_variant	RANGRF
structural_interaction_variant	RANGRF
structural_interaction_variant	RANGRF
disruptive_inframe_deletion	SLC25A35
structural_interaction_variant	SLC25A35
structural_interaction_variant	SLC25A35
disruptive_inframe_deletion	SLC25A35
missense_variant&splice_region_variant	ARHGEF15
missense_variant&splice_region_variant	ARHGEF15
frameshift_variant	ARHGEF15
frameshift_variant	KRBA2

structural_interaction_variant	MYH10
structural_interaction_variant	CCDC42
frameshift_variant	SPDYE4
structural_interaction_variant	MFSD6L
structural_interaction_variant	MFSD6L
structural_interaction_variant	MFSD6L
frameshift_variant	MFSD6L
structural_interaction_variant	MFSD6L
frameshift_variant	MFSD6L
missense_variant&splice_region_variant	PIK3R6
frameshift_variant	PIK3R5
structural_interaction_variant	PIK3R5
structural_interaction_variant	STX8
structural_interaction_variant	WDR16
structural_interaction_variant	WDR16
structural_interaction_variant	USP43
structural_interaction_variant	USP43
structural_interaction_variant	USP43
structural_interaction_variant	DHRS7C
structural_interaction_variant	GLP2R
structural_interaction_variant	GLP2R
structural_interaction_variant	GLP2R
structural_interaction_variant	GLP2R
structural_interaction_variant	GLP2R
structural_interaction_variant	RCVRN
structural_interaction_variant	RCVRN
structural_interaction_variant	RCVRN
stop_gained	GAS7
structural_interaction_variant	GAS7
structural_interaction_variant	GAS7
structural_interaction_variant	GAS7
structural_interaction_variant	MYH13
structural_interaction_variant	MYH13
structural_interaction_variant	MYH13
structural_interaction_variant	MYH13
structural_interaction_variant	MYH13
structural_interaction_variant	MYH8
structural_interaction_variant	MYH8
structural_interaction_variant	MYH8
structural_interaction_variant	MYH8
frameshift_variant	MYH8
structural_interaction_variant	MYH8
structural_interaction_variant	MYH8
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structural_interaction_variant	MYH8
structural_interaction_variant	MYH4
structural_interaction_variant	MYH4
structural_interaction_variant	MYH4
structural_interaction_variant	MYH4
splice_acceptor_variant&intron_variant	MYH4
structural_interaction_variant	MYH4
structural_interaction_variant	MYH4
structural_interaction_variant	MYH4
structural_interaction_variant	MYH4
structural_interaction_variant	MYH4
stop_gained&splice_region_variant	MYH4
structural_interaction_variant	MYH4
structural_interaction_variant	MYH1
structural_interaction_variant	MYH1
structural_interaction_variant	MYH1
structural_interaction_variant	MYH1
stop_gained	MYH1
structural_interaction_variant	MYH1
stop_gained	MYH1
structural_interaction_variant	MYH1
structural_interaction_variant	MYH3
structural_interaction_variant	MYH3
structural_interaction_variant	MYH3
structural_interaction_variant	MYH3
structural_interaction_variant	SCO1
structural_interaction_variant	ADPRM
missense_variant&splice_region_variant	ADPRM
structural_interaction_variant	TMEM220
missense_variant&splice_region_variant	TMEM220
structural_interaction_variant	PIRT
structural_interaction_variant	SHISA6
missense_variant&splice_region_variant	SHISA6
structural_interaction_variant	SHISA6
structural_interaction_variant	SHISA6
structural_interaction_variant	SHISA6
structural_interaction_variant	SHISA6
structural_interaction_variant	DNAH9
structural_interaction_variant	DNAH9
frameshift_variant	DNAH9
structural_interaction_variant	ZNF18
structural_interaction_variant	ZNF18
structural_interaction_variant	MAP2K4
structural_interaction_variant	AC005358.1
structural_interaction_variant	AC005358.1
structural_interaction_variant	MYOCD
structural_interaction_variant	MYOCD
structural_interaction_variant	MYOCD

structural_interaction_variant	MYOCD
structural_interaction_variant	ELAC2
frameshift_variant	TEKT3
structural_interaction_variant	TEKT3
stop_gained	TEKT3
structural_interaction_variant	TVP23C
structural_interaction_variant	TVP23C
structural_interaction_variant	ZNF286A
structural_interaction_variant	NCOR1
structural_interaction_variant	NCOR1
stop_gained	PIGL
structural_interaction_variant	TRPV2
structural_interaction_variant	TRPV2
structural_interaction_variant	TRPV2
structural_interaction_variant	TRPV2
structural_interaction_variant	TRPV2
structural_interaction_variant	TRPV2
structural_interaction_variant	TRPV2
structural_interaction_variant	ZNF287
structural_interaction_variant	ZNF624
structural_interaction_variant	ZNF624
structural_interaction_variant	ZNF624
structural_interaction_variant	ZNF624
structural_interaction_variant	ZNF624
structural_interaction_variant	ZNF624
missense_variant&splice_region_variant	ZNF624
structural_interaction_variant	TNFRSF13B
structural_interaction_variant	MPRIP
structural_interaction_variant	NT5M
structural_interaction_variant	MED9
structural_interaction_variant	PEMT
structural_interaction_variant	RAI1
structural_interaction_variant	SREBF1
structural_interaction_variant	SREBF1
frameshift_variant	LRRC48
stop_gained	LRRC48
structural_interaction_variant	LRRC48
structural_interaction_variant	LRRC48
structural_interaction_variant	LRRC48
structural_interaction_variant	LRRC48
structural_interaction_variant	LRRC48
stop_gained	ATPAF2
structural_interaction_variant	GID4
structural_interaction_variant	MYO15A
frameshift_variant	MYO15A
structural_interaction_variant	LLGL1
structural_interaction_variant	LLGL1
structural_interaction_variant	LLGL1

structural_interaction_variant	LLGL1
structural_interaction_variant	LLGL1
structural_interaction_variant	LLGL1
structural_interaction_variant	FLII
structural_interaction_variant	FLII
structural_interaction_variant	FLII
structural_interaction_variant	FLII
structural_interaction_variant	FLII
missense_variant&splice_region_variant	FLII
structural_interaction_variant	FLII
structural_interaction_variant	FLII
structural_interaction_variant	FLII
structural_interaction_variant	FLII
frameshift_variant	TOP3A
structural_interaction_variant	TOP3A
structural_interaction_variant	TOP3A
structural_interaction_variant	TOP3A
structural_interaction_variant	SMCR8
structural_interaction_variant	SMCR8
structural_interaction_variant	SMCR8
structural_interaction_variant	SMCR8
structural_interaction_variant	SMCR8
structural_interaction_variant	SHMT1
structural_interaction_variant	SHMT1
stop_gained	EVPLL
structural_interaction_variant	TRIM16L
structural_interaction_variant	FBXW10
structural_interaction_variant	PRPSAP2
structural_interaction_variant	PRPSAP2
structural_interaction_variant	SLC5A10
structural_interaction_variant	SLC5A10
structural_interaction_variant	FAM83G
structural_interaction_variant	FAM83G
structural_interaction_variant	EPN2
structural_interaction_variant	MAPK7
stop_gained	MAPK7
structural_interaction_variant	MAPK7
structural_interaction_variant	MFAP4
structural_interaction_variant	RNF112
structural_interaction_variant	SLC47A1
splice_donor_variant&intron_variant	SLC47A1
frameshift_variant	SLC47A1
frameshift_variant	SLC47A1
structural_interaction_variant	SLC47A1
structural_interaction_variant	SLC47A1
structural_interaction_variant	SLC47A1
frameshift_variant	SLC47A1
structural_interaction_variant	ALDH3A2

frameshift_variant	ALDH3A2
structural_interaction_variant	SLC47A2
structural_interaction_variant	SLC47A2
structural_interaction_variant	ULK2
structural_interaction_variant	AKAP10
structural_interaction_variant	AKAP10
structural_interaction_variant	AKAP10
frameshift_variant	SPECC1
structural_interaction_variant	SPECC1
structural_interaction_variant	SPECC1
structural_interaction_variant	SPECC1
structural_interaction_variant	SPECC1
structural_interaction_variant	SPECC1
structural_interaction_variant	DHRS7B
structural_interaction_variant	C17orf103
structural_interaction_variant	C17orf103
structural_interaction_variant	C17orf103
structural_interaction_variant	C17orf103
missense_variant&splice_region_variant	MAP2K3
structural_interaction_variant	MAP2K3
structural_interaction_variant	MAP2K3
frameshift_variant	MAP2K3
missense_variant&splice_region_variant	MAP2K3
structural_interaction_variant	MAP2K3
stop_gained	MAP2K3
structural_interaction_variant	MAP2K3
structural_interaction_variant	MAP2K3
structural_interaction_variant	MAP2K3
frameshift_variant	MAP2K3
structural_interaction_variant	MAP2K3
structural_interaction_variant	KCNJ12
structural_interaction_variant	KCNJ12
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structural_interaction_variant	KCNJ12
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structural_interaction_variant	KCNJ12

stop_gained	KCNJ12
structural_interaction_variant	KCNJ12
structural_interaction_variant	KCNJ12
structural_interaction_variant	KCNJ12
structural_interaction_variant	KCNJ12
structural_interaction_variant	KCNJ12
structural_interaction_variant	WSB1
missense_variant&splice_region_variant	KSR1
structural_interaction_variant	KSR1
structural_interaction_variant	NOS2
structural_interaction_variant	NOS2
structural_interaction_variant	NOS2
frameshift_variant	NOS2
structural_interaction_variant	NOS2
splice_donor_variant&intron_variant	NOS2
structural_interaction_variant	NLK
structural_interaction_variant	TMEM97
structural_interaction_variant	TMEM97
structural_interaction_variant	TMEM97
stop_gained	TMEM97
structural_interaction_variant	TMEM199
structural_interaction_variant	TMEM199
structural_interaction_variant	VTN
structural_interaction_variant	VTN
structural_interaction_variant	VTN
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structural_interaction_variant	VTN
structural_interaction_variant	VTN
structural_interaction_variant	SLC13A2
structural_interaction_variant	SLC13A2
structural_interaction_variant	SLC13A2
structural_interaction_variant	SLC13A2
structural_interaction_variant	SLC13A2
structural_interaction_variant	SLC13A2
structural_interaction_variant	SLC13A2
structural_interaction_variant	SLC13A2
structural_interaction_variant	UNC119
structural_interaction_variant	UNC119
structural_interaction_variant	PIGS
structural_interaction_variant	SPAG5
structural_interaction_variant	KIAA0100
structural_interaction_variant	KIAA0100
structural_interaction_variant	KIAA0100
structural_interaction_variant	KIAA0100

structural_interaction_variant	KIAA0100
structural_interaction_variant	KIAA0100
structural_interaction_variant	KIAA0100
structural_interaction_variant	SUPT6H
missense_variant&splice_region_variant	SUPT6H
structural_interaction_variant	SUPT6H
structural_interaction_variant	SUPT6H
structural_interaction_variant	SUPT6H
structural_interaction_variant	SUPT6H
structural_interaction_variant	SUPT6H
structural_interaction_variant	SUPT6H
structural_interaction_variant	SUPT6H
structural_interaction_variant	PROCA1
structural_interaction_variant	PROCA1
structural_interaction_variant	TLCD1
structural_interaction_variant	NEK8
structural_interaction_variant	TRAF4
structural_interaction_variant	FAM222B
structural_interaction_variant	ERAL1
splice_donor_variant&intron_variant	ERAL1
structural_interaction_variant	ERAL1
frameshift_variant	ERAL1
structural_interaction_variant	FLOT2
structural_interaction_variant	FLOT2
structural_interaction_variant	FLOT2
structural_interaction_variant	FLOT2
structural_interaction_variant	FLOT2
frameshift_variant	DHRS13
structural_interaction_variant	SEZ6
structural_interaction_variant	SEZ6
structural_interaction_variant	SEZ6
structural_interaction_variant	SEZ6
structural_interaction_variant	SEZ6
stop_gained&splice_region_variant	PIPOX
structural_interaction_variant	PIPOX
structural_interaction_variant	PIPOX
structural_interaction_variant	MYO18A
structural_interaction_variant	MYO18A
structural_interaction_variant	MYO18A
structural_interaction_variant	MYO18A
splice_donor_variant&intron_variant	MYO18A
structural_interaction_variant	MYO18A
structural_interaction_variant	MYO18A
structural_interaction_variant	MYO18A
structural_interaction_variant	MYO18A
frameshift_variant	CRYBA1
structural_interaction_variant	CRYBA1
frameshift_variant	ABHD15

structural_interaction_variant	ABHD15
structural_interaction_variant	ABHD15
structural_interaction_variant	ABHD15
structural_interaction_variant	GIT1
structural_interaction_variant	GIT1
structural_interaction_variant	ANKRD13B
structural_interaction_variant	CORO6
structural_interaction_variant	CORO6
stop_gained	CORO6
stop_gained	CORO6
structural_interaction_variant	CORO6
structural_interaction_variant	CORO6
structural_interaction_variant	SSH2
structural_interaction_variant	SSH2
structural_interaction_variant	SSH2
structural_interaction_variant	SSH2
structural_interaction_variant	SSH2
frameshift_variant	EFCAB5
structural_interaction_variant	EFCAB5
structural_interaction_variant	EFCAB5
structural_interaction_variant	EFCAB5
structural_interaction_variant	EFCAB5
structural_interaction_variant	EFCAB5
structural_interaction_variant	EFCAB5
structural_interaction_variant	EFCAB5
structural_interaction_variant	NSRP1
structural_interaction_variant	NSRP1
structural_interaction_variant	SLC6A4
structural_interaction_variant	BLMH
structural_interaction_variant	BLMH
structural_interaction_variant	BLMH
structural_interaction_variant	TMIGD1
structural_interaction_variant	CPD
structural_interaction_variant	CPD
structural_interaction_variant	CPD
structural_interaction_variant	CPD
structural_interaction_variant	CPD
structural_interaction_variant	CPD
structural_interaction_variant	CPD
splice_donor_variant&intron_variant	GOSR1
structural_interaction_variant	CRLF3
structural_interaction_variant	CRLF3
structural_interaction_variant	ATAD5
structural_interaction_variant	ATAD5
structural_interaction_variant	ATAD5
structural_interaction_variant	ATAD5
structural_interaction_variant	TEFM
splice_donor_variant&intron_variant	RNF135

structural_interaction_variant	RNF135
structural_interaction_variant	RNF135
stop_gained	RNF135
structural_interaction_variant	NF1
structural_interaction_variant	EVI2B
structural_interaction_variant	EVI2B
structural_interaction_variant	NF1
structural_interaction_variant	RAB11FIP4
structural_interaction_variant	COPRS
frameshift_variant	UTP6
structural_interaction_variant	UTP6
frameshift_variant	UTP6
structural_interaction_variant	UTP6
structural_interaction_variant	LRRC37B
structural_interaction_variant	LRRC37B
structural_interaction_variant	LRRC37B
structural_interaction_variant	ZNF207
structural_interaction_variant	ZNF207
structural_interaction_variant	PSMD11
structural_interaction_variant	CDK5R1
structural_interaction_variant	MYO1D
structural_interaction_variant	MYO1D
structural_interaction_variant	MYO1D
structural_interaction_variant	MYO1D
structural_interaction_variant	TMEM98
structural_interaction_variant	ASIC2
structural_interaction_variant	ASIC2
frameshift_variant	ASIC2
structural_interaction_variant	CCL2
structural_interaction_variant	CCL2
start_lost	CCL11
missense_variant&splice_region_variant	CCL8
structural_interaction_variant	CCL13
splice_donor_variant&intron_variant	CCL1
structural_interaction_variant	C17orf102
structural_interaction_variant	C17orf102
structural_interaction_variant	C17orf102
structural_interaction_variant	TMEM132E
structural_interaction_variant	TMEM132E
structural_interaction_variant	TMEM132E
structural_interaction_variant	TMEM132E
structural_interaction_variant	CCT6B
structural_interaction_variant	CCT6B
start_lost	ZNF830
structural_interaction_variant	ZNF830
structural_interaction_variant	ZNF830
structural_interaction_variant	LIG3
structural_interaction_variant	LIG3

structural_interaction_variant	LIG3
structural_interaction_variant	LIG3
structural_interaction_variant	LIG3
structural_interaction_variant	LIG3
structural_interaction_variant	LIG3
structural_interaction_variant	NLE1
structural_interaction_variant	NLE1
structural_interaction_variant	NLE1
structural_interaction_variant	UNC45B
frameshift_variant	UNC45B
structural_interaction_variant	UNC45B
stop_gained	UNC45B
stop_gained	SLFN5
structural_interaction_variant	SLFN5
structural_interaction_variant	SLFN5
structural_interaction_variant	SLFN13
structural_interaction_variant	SLFN12L
frameshift_variant	SLFN12L
structural_interaction_variant	SLFN12L
structural_interaction_variant	SLFN12L
structural_interaction_variant	SLFN12L
structural_interaction_variant	GAS2L2
structural_interaction_variant	GAS2L2
structural_interaction_variant	GAS2L2
structural_interaction_variant	GAS2L2
structural_interaction_variant	GAS2L2
structural_interaction_variant	GAS2L2
structural_interaction_variant	GAS2L2
structural_interaction_variant	GAS2L2
structural_interaction_variant	MMP28
structural_interaction_variant	MMP28
structural_interaction_variant	C17orf66
structural_interaction_variant	C17orf66
structural_interaction_variant	C17orf66
stop_gained	CCL5
structural_interaction_variant	RDM1
structural_interaction_variant	RDM1
stop_gained	CTB-186H2.3
missense_variant&splice_region_variant	CCL23
structural_interaction_variant	CCL18
structural_interaction_variant	CCL18
structural_interaction_variant	MYO19
structural_interaction_variant	MYO19
structural_interaction_variant	MYO19
structural_interaction_variant	MYO19
structural_interaction_variant	MYO19
stop_gained	MYO19
structural_interaction_variant	MYO19

stop_gained	MYO19
structural_interaction_variant	PIGW
structural_interaction_variant	PIGW
structural_interaction_variant	PIGW
structural_interaction_variant	GGNBP2
structural_interaction_variant	GGNBP2
structural_interaction_variant	GGNBP2
structural_interaction_variant	DHRS11
structural_interaction_variant	MRM1
conservative_inframe_deletion	MRM1
structural_interaction_variant	LHX1
structural_interaction_variant	AATF
structural_interaction_variant	AATF
structural_interaction_variant	ACACA
structural_interaction_variant	ACACA
structural_interaction_variant	ACACA
structural_interaction_variant	ACACA
structural_interaction_variant	ACACA
structural_interaction_variant	C17orf78
missense_variant&splice_region_variant	C17orf78
frameshift_variant	C17orf78
structural_interaction_variant	DUSP14
structural_interaction_variant	DUSP14
structural_interaction_variant	SYNRG
structural_interaction_variant	SYNRG
structural_interaction_variant	SYNRG
structural_interaction_variant	SYNRG
structural_interaction_variant	SYNRG
structural_interaction_variant	SYNRG
structural_interaction_variant	DDX52
structural_interaction_variant	DDX52
structural_interaction_variant	DDX52
structural_interaction_variant	DDX52
structural_interaction_variant	RP11-1407O15.2
structural_interaction_variant	RP11-1407O15.2
frameshift_variant	RP11-1407O15.2
structural_interaction_variant	MRPL45
structural_interaction_variant	MRPL45
structural_interaction_variant	MRPL45
stop_gained	MRPL45
frameshift_variant	GPR179
frameshift_variant	GPR179
structural_interaction_variant	GPR179
structural_interaction_variant	GPR179
structural_interaction_variant	GPR179
stop_gained	GPR179
structural_interaction_variant	GPR179
structural_interaction_variant	GPR179

structural_interaction_variant	SOCS7
structural_interaction_variant	SOCS7
structural_interaction_variant	MLLT6
structural_interaction_variant	MLLT6
structural_interaction_variant	MLLT6
structural_interaction_variant	MLLT6
structural_interaction_variant	CWC25
splice_acceptor_variant&intron_variant	CWC25
structural_interaction_variant	CWC25
stop_gained&splice_region_variant	CWC25
structural_interaction_variant	C17orf98
splice_donor_variant&intron_variant	PLXDC1
structural_interaction_variant	PLXDC1
structural_interaction_variant	PLXDC1
structural_interaction_variant	PLXDC1
structural_interaction_variant	PLXDC1
structural_interaction_variant	PLXDC1
structural_interaction_variant	ARL5C
structural_interaction_variant	ARL5C
structural_interaction_variant	CACNB1
structural_interaction_variant	CACNB1
structural_interaction_variant	CACNB1
structural_interaction_variant	STAC2
structural_interaction_variant	STAC2
structural_interaction_variant	FBXL20
structural_interaction_variant	MED1
structural_interaction_variant	CDK12
structural_interaction_variant	CDK12
structural_interaction_variant	CDK12
structural_interaction_variant	CDK12
structural_interaction_variant	CDK12
structural_interaction_variant	CDK12
structural_interaction_variant	CDK12
structural_interaction_variant	CDK12
structural_interaction_variant	PPP1R1B
structural_interaction_variant	PNMT
structural_interaction_variant	ERBB2
structural_interaction_variant	ERBB2
structural_interaction_variant	GRB7
structural_interaction_variant	GRB7
structural_interaction_variant	GRB7
stop_gained	GRB7
structural_interaction_variant	GRB7
structural_interaction_variant	GRB7
structural_interaction_variant	IKZF3
structural_interaction_variant	IKZF3
structural_interaction_variant	ZPBP2
stop_lost	GSDMB

structural_interaction_variant	GSDMA
structural_interaction_variant	GSDMA
structural_interaction_variant	GSDMA
structural_interaction_variant	PSMD3
structural_interaction_variant	PSMD3
structural_interaction_variant	CSF3
structural_interaction_variant	MED24
structural_interaction_variant	MED24
structural_interaction_variant	MED24
structural_interaction_variant	THRA
structural_interaction_variant	THRA
structural_interaction_variant	THRA
structural_interaction_variant	NR1D1
structural_interaction_variant	MSL1
structural_interaction_variant	CASC3
structural_interaction_variant	RAPGEFL1
structural_interaction_variant	RAPGEFL1
structural_interaction_variant	WIPF2
missense_variant&splice_region_variant	CDC6
frameshift_variant&stop_gained	CDC6
structural_interaction_variant	CDC6
structural_interaction_variant	CDC6
structural_interaction_variant	TOP2A
structural_interaction_variant	TOP2A
structural_interaction_variant	TOP2A
structural_interaction_variant	TOP2A
structural_interaction_variant	IGFBP4
structural_interaction_variant	TNS4
structural_interaction_variant	TNS4
structural_interaction_variant	KRT222
structural_interaction_variant	KRT24
frameshift_variant	KRT24
structural_interaction_variant	KRT24
frameshift_variant	KRT24
structural_interaction_variant	KRT25
structural_interaction_variant	KRT25
structural_interaction_variant	KRT25
structural_interaction_variant	KRT26
structural_interaction_variant	KRT26
structural_interaction_variant	KRT26
structural_interaction_variant	KRT27
structural_interaction_variant	KRT28
structural_interaction_variant	KRT28
structural_interaction_variant	KRT28
stop_gained	KRT28
structural_interaction_variant	KRT12
structural_interaction_variant	KRT12
structural_interaction_variant	KRT20

structural_interaction_variant	KRT23
structural_interaction_variant	KRT23
structural_interaction_variant	KRT23
structural_interaction_variant	KRT39
structural_interaction_variant	KRT39
structural_interaction_variant	KRT40
structural_interaction_variant	KRT40
structural_interaction_variant	KRT40
missense_variant&splice_region_variant	KRT40
splice_donor_variant&intron_variant	KRT40
structural_interaction_variant	KRT40
structural_interaction_variant	KRTAP3-1
structural_interaction_variant	KRTAP3-1
structural_interaction_variant	KRTAP1-5
start_lost	KRTAP1-5
structural_interaction_variant	KRTAP4-16P
structural_interaction_variant	KRTAP4-11
structural_interaction_variant	KRTAP4-4
disruptive_inframe_deletion	KRTAP4-2
structural_interaction_variant	KRTAP4-2
disruptive_inframe_deletion	KRTAP4-1
frameshift_variant	KRTAP4-1
structural_interaction_variant	KRTAP4-1
structural_interaction_variant	KRTAP29-1
structural_interaction_variant	KRTAP29-1
structural_interaction_variant	KRTAP29-1
structural_interaction_variant	KRTAP16-1
structural_interaction_variant	KRTAP16-1
structural_interaction_variant	KRTAP16-1
frameshift_variant	KRTAP16-1
structural_interaction_variant	KRTAP16-1
structural_interaction_variant	KRT33A
structural_interaction_variant	KRT34
structural_interaction_variant	KRT34
structural_interaction_variant	KRT38
structural_interaction_variant	KRT38
structural_interaction_variant	KRT38
structural_interaction_variant	KRT38
structural_interaction_variant	KRT38
structural_interaction_variant	KRT38
structural_interaction_variant	KRT35
structural_interaction_variant	KRT35
stop_gained	KRT36
structural_interaction_variant	KRT36
structural_interaction_variant	KRT36
structural_interaction_variant	KRT36
structural_interaction_variant	KRT15
structural_interaction_variant	KRT15

structural_interaction_variant	KRT15
stop_gained	KRT15
structural_interaction_variant	KRT15
structural_interaction_variant	KRT19
structural_interaction_variant	GAST
structural_interaction_variant	HAP1
structural_interaction_variant	HAP1
structural_interaction_variant	HAP1
structural_interaction_variant	HAP1
structural_interaction_variant	JUP
structural_interaction_variant	JUP
stop_gained	NT5C3B
structural_interaction_variant	KLHL10
structural_interaction_variant	KLHL10
structural_interaction_variant	KLHL11
structural_interaction_variant	KLHL11
frameshift_variant	KLHL11
structural_interaction_variant	ACLY
structural_interaction_variant	CNP
structural_interaction_variant	NKIRAS2
structural_interaction_variant	ZNF385C
structural_interaction_variant	DHX58
structural_interaction_variant	DHX58
structural_interaction_variant	DHX58
structural_interaction_variant	DHX58
structural_interaction_variant	DHX58
structural_interaction_variant	DHX58
structural_interaction_variant	DHX58
structural_interaction_variant	DHX58
structural_interaction_variant	KAT2A
frameshift_variant	HSPB9
stop_gained	HSPB9
missense_variant&splice_region_variant	RAB5C
structural_interaction_variant	KCNH4
structural_interaction_variant	KCNH4
structural_interaction_variant	GHDC
structural_interaction_variant	GHDC
structural_interaction_variant	STAT5A
structural_interaction_variant	STAT3
structural_interaction_variant	STAT3
frameshift_variant	PTRF
structural_interaction_variant	PTRF
structural_interaction_variant	PTRF
structural_interaction_variant	ATP6V0A1
structural_interaction_variant	ATP6V0A1
structural_interaction_variant	ATP6V0A1
stop_gained	NAGLU
structural_interaction_variant	NAGLU

structural_interaction_variant	NAGLU
structural_interaction_variant	NAGLU
structural_interaction_variant	NAGLU
structural_interaction_variant	NAGLU
structural_interaction_variant	HSD17B1
structural_interaction_variant	HSD17B1
structural_interaction_variant	HSD17B1
missense_variant&splice_region_variant	HSD17B1
structural_interaction_variant	HSD17B1
structural_interaction_variant	COASY
structural_interaction_variant	COASY
structural_interaction_variant	PSMC3IP
structural_interaction_variant	FAM134C
structural_interaction_variant	TUBG2
structural_interaction_variant	TUBG2
structural_interaction_variant	TUBG2
structural_interaction_variant	CNTNAP1
structural_interaction_variant	CNTNAP1
structural_interaction_variant	RAMP2
structural_interaction_variant	WNK4
frameshift_variant	WNK4
structural_interaction_variant	WNK4
structural_interaction_variant	WNK4
structural_interaction_variant	WNK4
frameshift_variant	WNK4
structural_interaction_variant	PSME3
frameshift_variant	AOC2
structural_interaction_variant	AOC2
stop_gained	AOC2
structural_interaction_variant	AOC3
structural_interaction_variant	AOC3
structural_interaction_variant	G6PC
structural_interaction_variant	AARSD1
missense_variant&splice_region_variant	PTGES3L
structural_interaction_variant	RUNDC1
structural_interaction_variant	RUNDC1
structural_interaction_variant	RPL27
splice_acceptor_variant&intron_variant	IFI35
frameshift_variant	VAT1
structural_interaction_variant	VAT1
structural_interaction_variant	VAT1
stop_gained	NBR1
structural_interaction_variant	NBR1
structural_interaction_variant	NBR1
structural_interaction_variant	TMEM106A
frameshift_variant	ARL4D
structural_interaction_variant	DHX8
structural_interaction_variant	ETV4

structural_interaction_variant	ETV4
structural_interaction_variant	MEOX1
structural_interaction_variant	DUSP3
missense_variant&splice_region_variant	MPP3
structural_interaction_variant	MPP3
structural_interaction_variant	CD300LG
structural_interaction_variant	MPP2
structural_interaction_variant	MPP2
structural_interaction_variant	NAGS
structural_interaction_variant	TMEM101
structural_interaction_variant	HDAC5
structural_interaction_variant	ASB16
structural_interaction_variant	ASB16
structural_interaction_variant	ASB16
structural_interaction_variant	TMUB2
structural_interaction_variant	UBTF
structural_interaction_variant	UBTF
structural_interaction_variant	UBTF
structural_interaction_variant	UBTF
structural_interaction_variant	SLC4A1
structural_interaction_variant	SLC4A1
frameshift_variant	SLC25A39
structural_interaction_variant	GRN
structural_interaction_variant	GRN
structural_interaction_variant	GRN
structural_interaction_variant	GRN
structural_interaction_variant	FAM171A2
structural_interaction_variant	ITGA2B
structural_interaction_variant	GPATCH8
structural_interaction_variant	GPATCH8
structural_interaction_variant	GPATCH8
structural_interaction_variant	GPATCH8
structural_interaction_variant	GPATCH8
structural_interaction_variant	GPATCH8
structural_interaction_variant	GPATCH8
structural_interaction_variant	FZD2
structural_interaction_variant	FZD2
structural_interaction_variant	FZD2
structural_interaction_variant	FZD2
structural_interaction_variant	FZD2
structural_interaction_variant	C17orf104
structural_interaction_variant	C17orf104
structural_interaction_variant	C17orf104
structural_interaction_variant	C17orf104
structural_interaction_variant	DBF4B
structural_interaction_variant	DBF4B
structural_interaction_variant	DBF4B
structural_interaction_variant	ADAM11

structural_interaction_variant	ADAM11
structural_interaction_variant	EFTUD2
frameshift_variant	FAM187A
structural_interaction_variant	KIF18B
structural_interaction_variant	KIF18B
structural_interaction_variant	DCAKD
structural_interaction_variant	DCAKD
frameshift_variant&stop_gained	DCAKD
structural_interaction_variant	DCAKD
structural_interaction_variant	NMT1
missense_variant&splice_region_variant	NMT1
structural_interaction_variant	PLCD3
structural_interaction_variant	PLCD3
structural_interaction_variant	ACBD4
structural_interaction_variant	ACBD4
structural_interaction_variant	HEXIM1
structural_interaction_variant	HEXIM1
structural_interaction_variant	HEXIM1
structural_interaction_variant	HEXIM1
structural_interaction_variant	HEXIM1
structural_interaction_variant	HEXIM1
structural_interaction_variant	HEXIM2
structural_interaction_variant	FMNL1
structural_interaction_variant	FMNL1
structural_interaction_variant	FMNL1
missense_variant&splice_region_variant	SPATA32
structural_interaction_variant	ARHGAP27
structural_interaction_variant	ARHGAP27
frameshift_variant	PLEKHM1
structural_interaction_variant	CRHR1
structural_interaction_variant	CRHR1
structural_interaction_variant	CRHR1
frameshift_variant	SPPL2C
stop_gained	SPPL2C
structural_interaction_variant	SPPL2C
structural_interaction_variant	SPPL2C
structural_interaction_variant	SPPL2C
structural_interaction_variant	SPPL2C
structural_interaction_variant	SPPL2C
splice_donor_variant&intron_variant	MAPT
splice_donor_variant&intron_variant	MAPT
structural_interaction_variant	MAPT
structural_interaction_variant	NSF
structural_interaction_variant	GOSR2
structural_interaction_variant	CDC27
structural_interaction_variant	MYL4
stop_gained	MYL4
structural_interaction_variant	MYL4

structural_interaction_variant	EFCAB13
structural_interaction_variant	EFCAB13
structural_interaction_variant	EFCAB13
stop_gained	EFCAB13
structural_interaction_variant	EFCAB13
structural_interaction_variant	NPEPPS
structural_interaction_variant	TBKBP1
structural_interaction_variant	TBKBP1
frameshift_variant	TBX21
frameshift_variant	TBX21
missense_variant&splice_region_variant	TBX21
structural_interaction_variant	OSBPL7
structural_interaction_variant	OSBPL7
structural_interaction_variant	OSBPL7
structural_interaction_variant	LRRC46
frameshift_variant	SCRN2
structural_interaction_variant	SP2
structural_interaction_variant	SP2
structural_interaction_variant	SP2
structural_interaction_variant	SP2
structural_interaction_variant	PNPO
structural_interaction_variant	PRR15L
structural_interaction_variant	PRR15L
structural_interaction_variant	CDK5RAP3
structural_interaction_variant	NFE2L1
missense_variant&splice_region_variant	SKAP1
missense_variant&splice_region_variant	SKAP1
structural_interaction_variant	HOXB2
structural_interaction_variant	HOXB3
structural_interaction_variant	HOXB3
structural_interaction_variant	HOXB4
structural_interaction_variant	HOXB4
structural_interaction_variant	HOXB5
structural_interaction_variant	HOXB5
structural_interaction_variant	HOXB6
structural_interaction_variant	HOXB7
structural_interaction_variant	HOXB8
splice_acceptor_variant&intron_variant	TTLL6
structural_interaction_variant	TTLL6
structural_interaction_variant	TTLL6
structural_interaction_variant	TTLL6
structural_interaction_variant	CALCOCO2
splice_donor_variant&intron_variant	CALCOCO2
structural_interaction_variant	UBE2Z
structural_interaction_variant	GIP
structural_interaction_variant	GIP
structural_interaction_variant	GIP
structural_interaction_variant	GIP

stop_gained	GIP
structural_interaction_variant	GIP
structural_interaction_variant	IGF2BP1
structural_interaction_variant	IGF2BP1
structural_interaction_variant	B4GALNT2
structural_interaction_variant	B4GALNT2
structural_interaction_variant	ABI3
structural_interaction_variant	ABI3
structural_interaction_variant	ZNF652
structural_interaction_variant	NGFR
missense_variant&splice_region_variant	SPOP
structural_interaction_variant	SLC35B1
structural_interaction_variant	SLC35B1
structural_interaction_variant	TAC4
structural_interaction_variant	PDK2
structural_interaction_variant	SAMD14
structural_interaction_variant	SAMD14
structural_interaction_variant	SGCA
structural_interaction_variant	SGCA
stop_gained	COL1A1
splice_donor_variant&intron_variant	TMEM92
structural_interaction_variant	TMEM92
structural_interaction_variant	XYLT2
stop_gained	MRPL27
structural_interaction_variant	EME1
structural_interaction_variant	EME1
structural_interaction_variant	EME1
structural_interaction_variant	LRRC59
structural_interaction_variant	ACSF2
structural_interaction_variant	CHAD
structural_interaction_variant	CHAD
structural_interaction_variant	CHAD
structural_interaction_variant	CHAD
structural_interaction_variant	CHAD
structural_interaction_variant	RSAD1
structural_interaction_variant	MYCBPAP
structural_interaction_variant	MYCBPAP
structural_interaction_variant	MYCBPAP
structural_interaction_variant	MYCBPAP
structural_interaction_variant	MYCBPAP
structural_interaction_variant	EPN3
structural_interaction_variant	EPN3
structural_interaction_variant	EPN3
structural_interaction_variant	EPN3
missense_variant&splice_region_variant	EPN3
structural_interaction_variant	EPN3
structural_interaction_variant	SPATA20
structural_interaction_variant	SPATA20

structural_interaction_variant	SPATA20
structural_interaction_variant	SPATA20
stop_gained	SPATA20
structural_interaction_variant	SPATA20
structural_interaction_variant	CACNA1G
structural_interaction_variant	CACNA1G
structural_interaction_variant	CACNA1G
structural_interaction_variant	CACNA1G
structural_interaction_variant	CACNA1G
structural_interaction_variant	CACNA1G
frameshift_variant	ABCC3
missense_variant&splice_region_variant	ABCC3
structural_interaction_variant	ANKRD40
structural_interaction_variant	ANKRD40
frameshift_variant	LUC7L3
disruptive_inframe_deletion	WFIKKN2
structural_interaction_variant	WFIKKN2
structural_interaction_variant	WFIKKN2
structural_interaction_variant	WFIKKN2
structural_interaction_variant	TOB1
structural_interaction_variant	TOB1
disruptive_inframe_deletion	TOB1
structural_interaction_variant	TOB1
structural_interaction_variant	TOB1
structural_interaction_variant	SPAG9
missense_variant&splice_region_variant	SPAG9
structural_interaction_variant	SPAG9
structural_interaction_variant	SPAG9
structural_interaction_variant	SPAG9
structural_interaction_variant	NME1-NME2
structural_interaction_variant	MBTD1
structural_interaction_variant	MBTD1
structural_interaction_variant	UTP18
structural_interaction_variant	UTP18
structural_interaction_variant	CA10
structural_interaction_variant	KIF2B
structural_interaction_variant	KIF2B
structural_interaction_variant	KIF2B
structural_interaction_variant	KIF2B
structural_interaction_variant	KIF2B
structural_interaction_variant	KIF2B
stop_gained	KIF2B
structural_interaction_variant	TOM1L1
structural_interaction_variant	TOM1L1
structural_interaction_variant	STXBP4
structural_interaction_variant	STXBP4
structural_interaction_variant	STXBP4
structural_interaction_variant	STXBP4

structural_interaction_variant	STXBP4
structural_interaction_variant	MMD
structural_interaction_variant	ANKFN1
structural_interaction_variant	C17orf67
structural_interaction_variant	COIL
structural_interaction_variant	COIL
structural_interaction_variant	SCPEP1
structural_interaction_variant	SCPEP1
structural_interaction_variant	SCPEP1
structural_interaction_variant	AKAP1
structural_interaction_variant	AKAP1
structural_interaction_variant	AKAP1
frameshift_variant	AKAP1
structural_interaction_variant	AKAP1
structural_interaction_variant	AKAP1
structural_interaction_variant	CUEDC1
structural_interaction_variant	CUEDC1
structural_interaction_variant	CUEDC1
structural_interaction_variant	VEZF1
structural_interaction_variant	SRSF1
structural_interaction_variant	EPX
stop_gained	EPX
structural_interaction_variant	EPX
structural_interaction_variant	MKS1
structural_interaction_variant	MKS1
stop_gained	LPO
structural_interaction_variant	LPO
structural_interaction_variant	MPO
structural_interaction_variant	MPO
structural_interaction_variant	MPO
splice_donor_variant&intron_variant	BZRAP1
structural_interaction_variant	BZRAP1
structural_interaction_variant	BZRAP1
structural_interaction_variant	BZRAP1
structural_interaction_variant	BZRAP1
structural_interaction_variant	BZRAP1
structural_interaction_variant	BZRAP1
missense_variant&splice_region_variant	BZRAP1
structural_interaction_variant	BZRAP1
structural_interaction_variant	SUPT4H1
stop_gained	RNF43
structural_interaction_variant	HSF5
structural_interaction_variant	HSF5
structural_interaction_variant	MTMR4
structural_interaction_variant	MTMR4
structural_interaction_variant	SEPT4
structural_interaction_variant	SEPT4
frameshift_variant	SEPT4

structural_interaction_variant	C17orf47
frameshift_variant	TEX14
stop_gained	TEX14
missense_variant&splice_region_variant	TEX14
structural_interaction_variant	RAD51C
structural_interaction_variant	PPM1E
structural_interaction_variant	PPM1E
structural_interaction_variant	PPM1E
structural_interaction_variant	SKA2
structural_interaction_variant	SKA2
structural_interaction_variant	SKA2
frameshift_variant	PRR11
frameshift_variant	PRR11
structural_interaction_variant	PRR11
structural_interaction_variant	CTD-2510F5.6
structural_interaction_variant	SMG8
structural_interaction_variant	SMG8
structural_interaction_variant	SMG8
frameshift_variant	SMG8
structural_interaction_variant	GDPD1
structural_interaction_variant	GDPD1
structural_interaction_variant	GDPD1
structural_interaction_variant	YPEL2
structural_interaction_variant	DHX40
missense_variant&splice_region_variant	TUBD1
structural_interaction_variant	TUBD1
missense_variant&splice_region_variant	HEATR6
structural_interaction_variant	HEATR6
structural_interaction_variant	CA4
missense_variant&splice_region_variant	USP32
structural_interaction_variant	USP32
structural_interaction_variant	C17orf64
structural_interaction_variant	C17orf64
structural_interaction_variant	C17orf64
structural_interaction_variant	BCAS3
structural_interaction_variant	BCAS3
structural_interaction_variant	BCAS3
structural_interaction_variant	TBX2
structural_interaction_variant	TBX2
structural_interaction_variant	C17orf82
structural_interaction_variant	TBX4
structural_interaction_variant	NACA2
stop_gained	NACA2
structural_interaction_variant	BRIP1
structural_interaction_variant	BRIP1
frameshift_variant	INTS2
structural_interaction_variant	MRC2
structural_interaction_variant	MRC2

structural_interaction_variant	MRC2
structural_interaction_variant	MRC2
structural_interaction_variant	MARCH10
frameshift_variant	MARCH10
structural_interaction_variant	TANC2
structural_interaction_variant	TANC2
structural_interaction_variant	TANC2
structural_interaction_variant	TANC2
structural_interaction_variant	TANC2
structural_interaction_variant	TANC2
structural_interaction_variant	CYB561
structural_interaction_variant	ACE
structural_interaction_variant	ACE
structural_interaction_variant	ACE
structural_interaction_variant	ACE
structural_interaction_variant	ACE
structural_interaction_variant	KCNH6
structural_interaction_variant	KCNH6
structural_interaction_variant	KCNH6
stop_gained	KCNH6
structural_interaction_variant	KCNH6
structural_interaction_variant	MAP3K3
structural_interaction_variant	MAP3K3
splice_donor_variant&intron_variant	MAP3K3
structural_interaction_variant	MAP3K3
structural_interaction_variant	STRADA
frameshift_variant	CCDC47
stop_gained	CCDC47
structural_interaction_variant	CCDC47
stop_gained	CCDC47
structural_interaction_variant	DDX42
structural_interaction_variant	DDX42
structural_interaction_variant	DDX42
structural_interaction_variant	DDX42
structural_interaction_variant	DDX42
structural_interaction_variant	DDX42
structural_interaction_variant	FTSJ3
structural_interaction_variant	FTSJ3
structural_interaction_variant	PSMC5
structural_interaction_variant	SMARCD2
structural_interaction_variant	SMARCD2
structural_interaction_variant	SMARCD2
frameshift_variant	SMARCD2
structural_interaction_variant	SMARCD2
structural_interaction_variant	SMARCD2
structural_interaction_variant	SMARCD2
missense_variant&splice_region_variant	GH2
structural_interaction_variant	GH2

structural_interaction_variant	CD79B
structural_interaction_variant	SCN4A
structural_interaction_variant	SCN4A
structural_interaction_variant	SCN4A
structural_interaction_variant	SCN4A
structural_interaction_variant	SCN4A
missense_variant&splice_region_variant	ICAM2
structural_interaction_variant	ICAM2
structural_interaction_variant	ERN1
structural_interaction_variant	ERN1
structural_interaction_variant	ERN1
structural_interaction_variant	ERN1
structural_interaction_variant	ERN1
stop_gained	ERN1
structural_interaction_variant	TEX2
structural_interaction_variant	TEX2
structural_interaction_variant	TEX2
structural_interaction_variant	TEX2
structural_interaction_variant	TEX2
structural_interaction_variant	POLG2
structural_interaction_variant	DDX5
structural_interaction_variant	DDX5
structural_interaction_variant	CEP95
frameshift_variant	CEP95
structural_interaction_variant	CEP95
splice_acceptor_variant&intron_variant	CEP95
structural_interaction_variant	GNA13
structural_interaction_variant	GNA13
structural_interaction_variant	GNA13
stop_gained	GNA13
structural_interaction_variant	AXIN2
structural_interaction_variant	AXIN2
structural_interaction_variant	AXIN2
structural_interaction_variant	CEP112
structural_interaction_variant	CEP112
frameshift_variant	CEP112
structural_interaction_variant	CEP112
frameshift_variant	CEP112
frameshift_variant	CEP112
structural_interaction_variant	CEP112
structural_interaction_variant	APOH
structural_interaction_variant	APOH
structural_interaction_variant	CACNG5
structural_interaction_variant	CACNG4
structural_interaction_variant	CACNG4
structural_interaction_variant	CACNG1
structural_interaction_variant	CACNG1
structural_interaction_variant	CACNG1

structural_interaction_variant	CACNG1
structural_interaction_variant	HELZ
structural_interaction_variant	HELZ
structural_interaction_variant	HELZ
structural_interaction_variant	HELZ
structural_interaction_variant	HELZ
structural_interaction_variant	PITPNC1
stop_gained	PITPNC1
structural_interaction_variant	NOL11
structural_interaction_variant	NOL11
structural_interaction_variant	NOL11
structural_interaction_variant	NOL11
structural_interaction_variant	C17orf58
structural_interaction_variant	C17orf58
structural_interaction_variant	KPNA2
structural_interaction_variant	KPNA2
structural_interaction_variant	AMZ2
structural_interaction_variant	AMZ2
frameshift_variant	AMZ2
frameshift_variant	AMZ2
structural_interaction_variant	WIPI1
structural_interaction_variant	ABCA8
structural_interaction_variant	ABCA8
structural_interaction_variant	ABCA8
frameshift_variant	ABCA8
frameshift_variant	ABCA8
structural_interaction_variant	ABCA8
structural_interaction_variant	ABCA8
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structural_interaction_variant	ABCA8
structural_interaction_variant	ABCA8
structural_interaction_variant	ABCA9
structural_interaction_variant	ABCA9
frameshift_variant	ABCA9
missense_variant&splice_region_variant	ABCA9
missense_variant&splice_region_variant	ABCA9
structural_interaction_variant	ABCA6
missense_variant&splice_region_variant	ABCA6
structural_interaction_variant	ABCA6
structural_interaction_variant	ABCA6
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structural_interaction_variant	ABCA6
structural_interaction_variant	ABCA6
structural_interaction_variant	ABCA6

structural_interaction_variant	ABCA6
structural_interaction_variant	ABCA6
stop_lost	ABCA10
missense_variant&splice_region_variant	ABCA10
structural_interaction_variant	ABCA10
structural_interaction_variant	ABCA10
structural_interaction_variant	ABCA10
frameshift_variant	ABCA10
structural_interaction_variant	ABCA10
stop_gained	ABCA5
conservative_inframe_deletion	ABCA5
structural_interaction_variant	ABCA5
stop_gained	ABCA5
structural_interaction_variant	ABCA5
structural_interaction_variant	ABCA5
frameshift_variant	ABCA5
frameshift_variant	ABCA5
structural_interaction_variant	ABCA5
missense_variant&splice_region_variant	ABCA5
frameshift_variant	ABCA5
stop_gained	KCNJ16
structural_interaction_variant	KCNJ16
structural_interaction_variant	KCNJ16
structural_interaction_variant	KCNJ2
stop_gained	KCNJ2
structural_interaction_variant	SLC39A11
stop_gained	SLC39A11
structural_interaction_variant	SSTR2
structural_interaction_variant	FAM104A
structural_interaction_variant	C17orf80
structural_interaction_variant	C17orf80
missense_variant&splice_region_variant	C17orf80
structural_interaction_variant	C17orf80
structural_interaction_variant	CPSF4L
structural_interaction_variant	CPSF4L
structural_interaction_variant	CPSF4L
structural_interaction_variant	CPSF4L
missense_variant&splice_region_variant	CDC42EP4
structural_interaction_variant	CDC42EP4
structural_interaction_variant	CDC42EP4
structural_interaction_variant	SDK2
structural_interaction_variant	SDK2
structural_interaction_variant	SDK2
structural_interaction_variant	SDK2
structural_interaction_variant	SDK2
structural_interaction_variant	SDK2
structural_interaction_variant	TTYH2
structural_interaction_variant	TTYH2

structural_interaction_variant	KIF19
structural_interaction_variant	KIF19
structural_interaction_variant	BTBD17
structural_interaction_variant	GPR142
structural_interaction_variant	GPR142
structural_interaction_variant	GPR142
structural_interaction_variant	GPRC5C
structural_interaction_variant	GPRC5C
structural_interaction_variant	GPRC5C
frameshift_variant	CD300LD
structural_interaction_variant	CD300LD
structural_interaction_variant	CD300E
structural_interaction_variant	CD300LF
structural_interaction_variant	RAB37
structural_interaction_variant	RAB37
structural_interaction_variant	SLC9A3R1
structural_interaction_variant	SLC9A3R1
structural_interaction_variant	SLC9A3R1
structural_interaction_variant	NAT9
structural_interaction_variant	NAT9
structural_interaction_variant	NAT9
structural_interaction_variant	TMEM104
structural_interaction_variant	TMEM104
structural_interaction_variant	GRIN2C
structural_interaction_variant	GRIN2C
structural_interaction_variant	GRIN2C
structural_interaction_variant	FDXR
structural_interaction_variant	FDXR
structural_interaction_variant	FADS6
stop_gained	FADS6
splice_donor_variant&intron_variant	OTOP3
stop_gained	OTOP3
structural_interaction_variant	OTOP3
structural_interaction_variant	OTOP3
structural_interaction_variant	OTOP3
frameshift_variant	OTOP3
structural_interaction_variant	OTOP3
structural_interaction_variant	OTOP3
structural_interaction_variant	OTOP3
missense_variant&splice_region_variant	ICT1
structural_interaction_variant	KCTD2
structural_interaction_variant	SLC16A5
structural_interaction_variant	ARMC7
structural_interaction_variant	NUP85
structural_interaction_variant	NUP85
structural_interaction_variant	NUP85
structural_interaction_variant	GGA3
structural_interaction_variant	GGA3

structural_interaction_variant	GGA3
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structural_interaction_variant	GGA3
structural_interaction_variant	GGA3
structural_interaction_variant	GGA3
structural_interaction_variant	GGA3
structural_interaction_variant	MIF4GD
structural_interaction_variant	KIAA0195
structural_interaction_variant	KIAA0195
structural_interaction_variant	KIAA0195
stop_gained	KIAA0195
structural_interaction_variant	KIAA0195
structural_interaction_variant	KIAA0195
missense_variant&splice_region_variant	KIAA0195
missense_variant&splice_region_variant	KIAA0195
structural_interaction_variant	KIAA0195
missense_variant&splice_region_variant	KIAA0195
frameshift_variant	LLGL2
structural_interaction_variant	LLGL2
structural_interaction_variant	LLGL2
structural_interaction_variant	RECQL5
structural_interaction_variant	RECQL5
frameshift_variant	RECQL5
structural_interaction_variant	RECQL5
structural_interaction_variant	RECQL5
frameshift_variant	RECQL5
structural_interaction_variant	RECQL5
structural_interaction_variant	RECQL5
structural_interaction_variant	SAP30BP
structural_interaction_variant	SAP30BP
structural_interaction_variant	ITGB4
structural_interaction_variant	ITGB4
structural_interaction_variant	GALK1
structural_interaction_variant	UNK
structural_interaction_variant	UNC13D
structural_interaction_variant	TRIM47
structural_interaction_variant	MRPL38
structural_interaction_variant	FBF1
structural_interaction_variant	FBF1
structural_interaction_variant	FBF1
structural_interaction_variant	FBF1
structural_interaction_variant	ACOX1
structural_interaction_variant	ACOX1
structural_interaction_variant	CDK3
structural_interaction_variant	EVPL
structural_interaction_variant	EVPL
structural_interaction_variant	EVPL

structural_interaction_variant	EVPL
stop_gained	EVPL
structural_interaction_variant	EVPL
structural_interaction_variant	EVPL
structural_interaction_variant	EVPL
structural_interaction_variant	EVPL
structural_interaction_variant	EVPL
structural_interaction_variant	EVPL
structural_interaction_variant	SRP68
structural_interaction_variant	GALR2
structural_interaction_variant	GALR2
structural_interaction_variant	ZACN
structural_interaction_variant	EXOC7
structural_interaction_variant	EXOC7
structural_interaction_variant	EXOC7
structural_interaction_variant	RNF157
structural_interaction_variant	RNF157
structural_interaction_variant	PRPSAP1
structural_interaction_variant	PRPSAP1
structural_interaction_variant	PRPSAP1
structural_interaction_variant	SPHK1
structural_interaction_variant	UBE2O
structural_interaction_variant	UBE2O
structural_interaction_variant	UBE2O
structural_interaction_variant	UBE2O
structural_interaction_variant	UBE2O
frameshift_variant	AANAT
structural_interaction_variant	AANAT
structural_interaction_variant	RHBDF2
structural_interaction_variant	CYGB
structural_interaction_variant	ST6GALNAC2
splice_acceptor_variant&intron_variant	ST6GALNAC2
structural_interaction_variant	ST6GALNAC1
disruptive_inframe_deletion	ST6GALNAC1
structural_interaction_variant	ST6GALNAC1
structural_interaction_variant	ST6GALNAC1
structural_interaction_variant	MXRA7
structural_interaction_variant	MXRA7
structural_interaction_variant	MXRA7
structural_interaction_variant	MXRA7
structural_interaction_variant	MXRA7
structural_interaction_variant	JMJD6
structural_interaction_variant	JMJD6
structural_interaction_variant	JMJD6
stop_gained	METTL23
structural_interaction_variant	METTL23
missense_variant&splice_region_variant	METTL23
frameshift_variant&stop_lost	METTL23

missense_variant&splice_region_variant	METTL23
disruptive_inframe_deletion	SRSF2
missense_variant&splice_region_variant	MFSD11
structural_interaction_variant	MGAT5B
structural_interaction_variant	MGAT5B
structural_interaction_variant	MGAT5B
structural_interaction_variant	MGAT5B
structural_interaction_variant	SEC14L1
structural_interaction_variant	SEC14L1
structural_interaction_variant	SEC14L1
structural_interaction_variant	SEPT9
stop_gained	SEPT9
structural_interaction_variant	TNRC6C
conservative_inframe_deletion	TNRC6C
structural_interaction_variant	TNRC6C
structural_interaction_variant	TNRC6C
structural_interaction_variant	TNRC6C
structural_interaction_variant	TNRC6C
structural_interaction_variant	C17orf99
structural_interaction_variant	C17orf99
structural_interaction_variant	SYNGR2
structural_interaction_variant	AFMID
structural_interaction_variant	AFMID
structural_interaction_variant	AFMID
structural_interaction_variant	AFMID
structural_interaction_variant	AFMID
structural_interaction_variant	SOCS3
structural_interaction_variant	SOCS3
structural_interaction_variant	SOCS3
missense_variant&splice_region_variant	PGS1
frameshift_variant	PGS1
structural_interaction_variant	PGS1
missense_variant&splice_region_variant	PGS1
structural_interaction_variant	PGS1
structural_interaction_variant	DNAH17
structural_interaction_variant	DNAH17
structural_interaction_variant	DNAH17
structural_interaction_variant	DNAH17
structural_interaction_variant	DNAH17
frameshift_variant	DNAH17
stop_gained	DNAH17
structural_interaction_variant	DNAH17
stop_gained	DNAH17
structural_interaction_variant	DNAH17
structural_interaction_variant	DNAH17
frameshift_variant	DNAH17
structural_interaction_variant	DNAH17
structural_interaction_variant	DNAH17

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structural_interaction_variant	DNAH17
structural_interaction_variant	DNAH17
structural_interaction_variant	DNAH17
structural_interaction_variant	DNAH17
missense_variant&splice_region_variant	DNAH17
structural_interaction_variant	DNAH17
structural_interaction_variant	DNAH17
structural_interaction_variant	DNAH17
missense_variant&splice_region_variant	DNAH17
structural_interaction_variant	DNAH17
structural_interaction_variant	DNAH17
structural_interaction_variant	DNAH17
structural_interaction_variant	DNAH17
structural_interaction_variant	DNAH17
stop_gained	DNAH17
structural_interaction_variant	DNAH17
structural_interaction_variant	CYTH1
structural_interaction_variant	CYTH1
structural_interaction_variant	CYTH1
frameshift_variant	USP36
structural_interaction_variant	USP36
structural_interaction_variant	USP36
structural_interaction_variant	USP36
structural_interaction_variant	USP36
structural_interaction_variant	USP36
structural_interaction_variant	DDC8
structural_interaction_variant	DDC8
structural_interaction_variant	DDC8
structural_interaction_variant	DDC8
stop_gained	DDC8
structural_interaction_variant	DDC8
structural_interaction_variant	LGALS3BP
structural_interaction_variant	LGALS3BP
structural_interaction_variant	LGALS3BP
structural_interaction_variant	LGALS3BP
structural_interaction_variant	LGALS3BP
structural_interaction_variant	LGALS3BP
structural_interaction_variant	LGALS3BP
structural_interaction_variant	CANT1
structural_interaction_variant	C1QTNF1
structural_interaction_variant	C1QTNF1
stop_gained	ENGASE
structural_interaction_variant	ENGASE
structural_interaction_variant	ENGASE
stop_gained	ENGASE
structural_interaction_variant	ENGASE
frameshift_variant	ENGASE

structural_interaction_variant	ENGASE
structural_interaction_variant	ENGASE
structural_interaction_variant	ENGASE
structural_interaction_variant	ENPP7
structural_interaction_variant	ENPP7
structural_interaction_variant	CBX2
frameshift_variant	CBX2
structural_interaction_variant	CBX2
structural_interaction_variant	CBX2
structural_interaction_variant	CBX8
structural_interaction_variant	TBC1D16
structural_interaction_variant	TBC1D16
structural_interaction_variant	CCDC40
structural_interaction_variant	GAA
structural_interaction_variant	GAA
structural_interaction_variant	GAA
structural_interaction_variant	EIF4A3
structural_interaction_variant	EIF4A3
structural_interaction_variant	SGSH
frameshift_variant	SGSH
structural_interaction_variant	SLC26A11
missense_variant&splice_region_variant	SLC26A11
structural_interaction_variant	SLC26A11
stop_gained	RNF213
structural_interaction_variant	RNF213
structural_interaction_variant	RNF213
structural_interaction_variant	NPTX1
structural_interaction_variant	RPTOR
structural_interaction_variant	AATK
structural_interaction_variant	AATK
frameshift_variant	AZI1
missense_variant&splice_region_variant	AZI1
structural_interaction_variant	SLC38A10
structural_interaction_variant	SLC38A10
frameshift_variant	SLC38A10
structural_interaction_variant	ACTG1
structural_interaction_variant	ACTG1
structural_interaction_variant	ACTG1
structural_interaction_variant	ACTG1
structural_interaction_variant	ACTG1
structural_interaction_variant	FSCN2
structural_interaction_variant	FSCN2
structural_interaction_variant	FSCN2
structural_interaction_variant	FSCN2
structural_interaction_variant	C17orf70
structural_interaction_variant	C17orf70
structural_interaction_variant	C17orf70
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structural_interaction_variant	C17orf70
structural_interaction_variant	NPLOC4
structural_interaction_variant	NPLOC4
structural_interaction_variant	TSPAN10
structural_interaction_variant	TSPAN10
structural_interaction_variant	PDE6G
structural_interaction_variant	PDE6G
structural_interaction_variant	CCDC137
structural_interaction_variant	CCDC137
structural_interaction_variant	ARL16
structural_interaction_variant	HGS
structural_interaction_variant	HGS
structural_interaction_variant	HGS
structural_interaction_variant	HGS
structural_interaction_variant	HGS
structural_interaction_variant	HGS
structural_interaction_variant	SLC25A10
structural_interaction_variant	SLC25A10
missense_variant&splice_region_variant	SLC25A10
structural_interaction_variant	PPP1R27
structural_interaction_variant	PPP1R27
structural_interaction_variant	P4HB
structural_interaction_variant	P4HB
structural_interaction_variant	P4HB
conservative_inframe_deletion	ALYREF
structural_interaction_variant	SIRT7
stop_gained	MYADML2
structural_interaction_variant	ASPSCR1
structural_interaction_variant	ASPSCR1
structural_interaction_variant	ASPSCR1
structural_interaction_variant	ASPSCR1
structural_interaction_variant	LRRC45
structural_interaction_variant	LRRC45
structural_interaction_variant	RAC3
structural_interaction_variant	DCXR
structural_interaction_variant	DCXR
structural_interaction_variant	DCXR
structural_interaction_variant	RFNG
structural_interaction_variant	GPS1
structural_interaction_variant	GPS1
structural_interaction_variant	DUS1L
structural_interaction_variant	DUS1L
structural_interaction_variant	DUS1L
structural_interaction_variant	FASN

structural_interaction_variant	FASN
structural_interaction_variant	FASN
structural_interaction_variant	FASN
structural_interaction_variant	FASN
structural_interaction_variant	CCDC57
structural_interaction_variant	SLC16A3
structural_interaction_variant	SLC16A3
structural_interaction_variant	CD7
structural_interaction_variant	OGFOD3
missense_variant&splice_region_variant	OGFOD3
structural_interaction_variant	HEXDC
structural_interaction_variant	HEXDC
structural_interaction_variant	HEXDC
structural_interaction_variant	C17orf62
structural_interaction_variant	C17orf62
structural_interaction_variant	C17orf62
structural_interaction_variant	NARF
structural_interaction_variant	WDR45B
structural_interaction_variant	RAB40B
frameshift_variant&stop_gained	FN3KRP
structural_interaction_variant	FN3KRP
structural_interaction_variant	FN3KRP
structural_interaction_variant	FN3KRP
structural_interaction_variant	FN3K
structural_interaction_variant	TBCD
structural_interaction_variant	ZNF750
structural_interaction_variant	ZNF750
structural_interaction_variant	TBCD
missense_variant&splice_region_variant	TBCD
structural_interaction_variant	METRNL
structural_interaction_variant	METRNL
structural_interaction_variant	METRNL
structural_interaction_variant	THOC1
structural_interaction_variant	THOC1
structural_interaction_variant	THOC1
structural_interaction_variant	THOC1
structural_interaction_variant	COLEC12
structural_interaction_variant	CETN1
structural_interaction_variant	CLUL1
structural_interaction_variant	CLUL1
structural_interaction_variant	TYMS
structural_interaction_variant	ENOSF1
structural_interaction_variant	ENOSF1
structural_interaction_variant	ENOSF1
structural_interaction_variant	YES1
structural_interaction_variant	METTL4
structural_interaction_variant	METTL4
splice_acceptor_variant&splice_region_variant&intr	METTL4

structural_interaction_variant	METTL4
structural_interaction_variant	METTL4
missense_variant&splice_region_variant	METTL4
stop_gained	METTL4
structural_interaction_variant	NDC80
structural_interaction_variant	EMILIN2
structural_interaction_variant	EMILIN2
structural_interaction_variant	EMILIN2
structural_interaction_variant	EMILIN2
missense_variant&splice_region_variant	EMILIN2
structural_interaction_variant	EMILIN2
structural_interaction_variant	LPIN2
frameshift_variant	MYOM1
structural_interaction_variant	MYOM1
stop_gained	MYOM1
structural_interaction_variant	MYOM1
structural_interaction_variant	MYOM1
structural_interaction_variant	DLGAP1
structural_interaction_variant	ZBTB14
structural_interaction_variant	EPB41L3
structural_interaction_variant	EPB41L3
structural_interaction_variant	EPB41L3
structural_interaction_variant	EPB41L3
structural_interaction_variant	EPB41L3
structural_interaction_variant	EPB41L3
structural_interaction_variant	L3MBTL4
structural_interaction_variant	ARHGAP28
structural_interaction_variant	ARHGAP28
stop_gained	LAMA1
stop_gained	LAMA1
stop_gained	LAMA1
structural_interaction_variant	LRRC30
structural_interaction_variant	LRRC30
structural_interaction_variant	LRRC30
structural_interaction_variant	PTPRM
structural_interaction_variant	PTPRM
structural_interaction_variant	PTPRM
structural_interaction_variant	SOGA2
structural_interaction_variant	SOGA2
structural_interaction_variant	SOGA2
structural_interaction_variant	SOGA2
structural_interaction_variant	SOGA2
structural_interaction_variant	SOGA2
structural_interaction_variant	SOGA2
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structural_interaction_variant	SOGA2

structural_interaction_variant	SOGA2
structural_interaction_variant	SOGA2
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structural_interaction_variant	SOGA2
structural_interaction_variant	SOGA2
structural_interaction_variant	SOGA2
structural_interaction_variant	SOGA2
structural_interaction_variant	ANKRD12
structural_interaction_variant	ANKRD12
structural_interaction_variant	ANKRD12
structural_interaction_variant	ANKRD12
structural_interaction_variant	ANKRD12
stop_gained	ANKRD12
structural_interaction_variant	ANKRD12
structural_interaction_variant	ANKRD12
structural_interaction_variant	ANKRD12
frameshift_variant	TWSG1
structural_interaction_variant	RALBP1
structural_interaction_variant	RALBP1
structural_interaction_variant	PPP4R1
structural_interaction_variant	PPP4R1
structural_interaction_variant	PPP4R1
structural_interaction_variant	RAB31
structural_interaction_variant	TXNDC2
structural_interaction_variant	TXNDC2
structural_interaction_variant	APCDD1
structural_interaction_variant	APCDD1
structural_interaction_variant	APCDD1
structural_interaction_variant	APCDD1
structural_interaction_variant	APCDD1
structural_interaction_variant	NAPG
conservative_inframe_deletion	CHMP1B
structural_interaction_variant	CHMP1B
structural_interaction_variant	GNAL
disruptive_inframe_deletion	MPPE1
structural_interaction_variant	MPPE1
structural_interaction_variant	IMPA2
structural_interaction_variant	CIDEA
structural_interaction_variant	CIDEA
stop_gained	AFG3L2
structural_interaction_variant	SPIRE1
structural_interaction_variant	SPIRE1
structural_interaction_variant	SPIRE1
structural_interaction_variant	SPIRE1
structural_interaction_variant	CEP76
structural_interaction_variant	CEP76
structural_interaction_variant	CEP76
structural_interaction_variant	CEP76

structural_interaction_variant	PSMG2
structural_interaction_variant	PSMG2
structural_interaction_variant	PTPN2
structural_interaction_variant	SEH1L
structural_interaction_variant	SEH1L
missense_variant&splice_region_variant	CEP192
structural_interaction_variant	CEP192
structural_interaction_variant	CEP192
structural_interaction_variant	LDLRAD4
structural_interaction_variant	LDLRAD4
structural_interaction_variant	RNMT
structural_interaction_variant	RNMT
structural_interaction_variant	RNMT
structural_interaction_variant	RNMT
structural_interaction_variant	RNMT
structural_interaction_variant	MC5R
structural_interaction_variant	MC5R
structural_interaction_variant	MC2R
structural_interaction_variant	MC2R
structural_interaction_variant	ROCK1
structural_interaction_variant	ROCK1
stop_gained&splice_region_variant	ROCK1
structural_interaction_variant	ROCK1
structural_interaction_variant	ROCK1
structural_interaction_variant	ROCK1
structural_interaction_variant	ESCO1
structural_interaction_variant	ESCO1
structural_interaction_variant	ESCO1
frameshift_variant	ABHD3
structural_interaction_variant	RBBP8
structural_interaction_variant	RBBP8
structural_interaction_variant	RBBP8
structural_interaction_variant	RBBP8
structural_interaction_variant	CABLES1
structural_interaction_variant	CABLES1
structural_interaction_variant	CABLES1
frameshift_variant	TMEM241
frameshift_variant	RIOK3
structural_interaction_variant	C18orf8
structural_interaction_variant	C18orf8
frameshift_variant	NPC1
structural_interaction_variant	NPC1
structural_interaction_variant	NPC1
structural_interaction_variant	NPC1
structural_interaction_variant	NPC1
structural_interaction_variant	NPC1
structural_interaction_variant	ANKRD29
frameshift_variant	LAMA3

structural_interaction_variant	TTC39C
structural_interaction_variant	TTC39C
structural_interaction_variant	CABYR
structural_interaction_variant	CABYR
structural_interaction_variant	CABYR
structural_interaction_variant	CABYR
structural_interaction_variant	CABYR
structural_interaction_variant	CABYR
structural_interaction_variant	OSBPL1A
structural_interaction_variant	OSBPL1A
structural_interaction_variant	OSBPL1A
structural_interaction_variant	OSBPL1A
structural_interaction_variant	IMPACT
structural_interaction_variant	HRH4
structural_interaction_variant	HRH4
structural_interaction_variant	HRH4
structural_interaction_variant	HRH4
structural_interaction_variant	ZNF521
structural_interaction_variant	ZNF521
structural_interaction_variant	ZNF521
structural_interaction_variant	ZNF521
structural_interaction_variant	ZNF521
structural_interaction_variant	SS18
structural_interaction_variant	SS18
structural_interaction_variant	PSMA8
structural_interaction_variant	PSMA8
structural_interaction_variant	TAF4B
structural_interaction_variant	TAF4B
structural_interaction_variant	TAF4B
structural_interaction_variant	TAF4B
structural_interaction_variant	TAF4B
structural_interaction_variant	KCTD1
structural_interaction_variant	AQP4
structural_interaction_variant	CHST9
stop_gained	CHST9
structural_interaction_variant	CHST9
structural_interaction_variant	CDH2
structural_interaction_variant	CDH2
structural_interaction_variant	CDH2
structural_interaction_variant	CDH2
structural_interaction_variant	CDH2
structural_interaction_variant	DSC3
structural_interaction_variant	DSC3
structural_interaction_variant	DSC3
structural_interaction_variant	DSC3
structural_interaction_variant	DSC2
structural_interaction_variant	DSC2
structural_interaction_variant	DSC1

structural_interaction_variant	DSC1
structural_interaction_variant	DSC1
missense_variant&splice_region_variant	DSC1
structural_interaction_variant	DSG4
structural_interaction_variant	DSG4
structural_interaction_variant	DSG3
structural_interaction_variant	DSG3
structural_interaction_variant	DSG3
structural_interaction_variant	DSG3
structural_interaction_variant	DSG2
structural_interaction_variant	DSG2
structural_interaction_variant	DSG2
stop_gained	TTR
structural_interaction_variant	TRAPPC8
structural_interaction_variant	TRAPPC8
structural_interaction_variant	TRAPPC8
structural_interaction_variant	TRAPPC8
structural_interaction_variant	TRAPPC8
structural_interaction_variant	TRAPPC8
stop_gained	TRAPPC8
structural_interaction_variant	TRAPPC8
structural_interaction_variant	TRAPPC8
structural_interaction_variant	RNF125
structural_interaction_variant	MEP1B
structural_interaction_variant	MEP1B
structural_interaction_variant	MEP1B
structural_interaction_variant	CCDC178
structural_interaction_variant	CCDC178
stop_gained	CCDC178
structural_interaction_variant	CCDC178
structural_interaction_variant	CCDC178
structural_interaction_variant	CCDC178
structural_interaction_variant	CCDC178
structural_interaction_variant	CCDC178
structural_interaction_variant	CCDC178
structural_interaction_variant	DTNA
structural_interaction_variant	DTNA
structural_interaction_variant	DTNA
structural_interaction_variant	ZNF397
structural_interaction_variant	ZNF397
stop_gained	ZNF397
stop_gained	ZNF397
structural_interaction_variant	ZNF397
structural_interaction_variant	ZSCAN30
structural_interaction_variant	ZSCAN30
structural_interaction_variant	ZSCAN30
structural_interaction_variant	ZSCAN30
stop_gained	ZNF24

structural_interaction_variant	INO80C
structural_interaction_variant	C18orf21
structural_interaction_variant	RPRD1A
structural_interaction_variant	RPRD1A
structural_interaction_variant	SLC39A6
structural_interaction_variant	SLC39A6
frameshift_variant	SLC39A6
structural_interaction_variant	SLC39A6
structural_interaction_variant	SLC39A6
structural_interaction_variant	ELP2
structural_interaction_variant	ELP2
structural_interaction_variant	ELP2
structural_interaction_variant	ELP2
structural_interaction_variant	ELP2
structural_interaction_variant	ELP2
structural_interaction_variant	MOCOS
structural_interaction_variant	MOCOS
structural_interaction_variant	FHOD3
structural_interaction_variant	FHOD3
structural_interaction_variant	FHOD3
structural_interaction_variant	FHOD3
structural_interaction_variant	FHOD3
structural_interaction_variant	KIAA1328
splice_donor_variant&intron_variant	KIAA1328
frameshift_variant	KIAA1328
structural_interaction_variant	KIAA1328
structural_interaction_variant	KIAA1328
structural_interaction_variant	KIAA1328
structural_interaction_variant	PIK3C3
structural_interaction_variant	RIT2
structural_interaction_variant	SYT4
structural_interaction_variant	SETBP1
structural_interaction_variant	SLC14A2
splice_donor_variant&intron_variant	SLC14A2
structural_interaction_variant	SLC14A2
structural_interaction_variant	SLC14A2
structural_interaction_variant	SLC14A2
stop_gained	SLC14A2
structural_interaction_variant	SLC14A2
stop_gained	SLC14A2
splice_acceptor_variant&intron_variant	SIGLEC15
structural_interaction_variant	EPG5
missense_variant&splice_region_variant	HAUS1
splice_acceptor_variant&intron_variant	HAUS1
structural_interaction_variant	LOXHD1
structural_interaction_variant	LOXHD1
structural_interaction_variant	LOXHD1
structural_interaction_variant	LOXHD1

structural_interaction_variant	LOXHD1
structural_interaction_variant	LOXHD1
structural_interaction_variant	LOXHD1
structural_interaction_variant	ST8SIA5
structural_interaction_variant	PIAS2
frameshift_variant	PIAS2
frameshift_variant	PIAS2
frameshift_variant	PIAS2
structural_interaction_variant	PIAS2
structural_interaction_variant	TCEB3B
frameshift_variant	TCEB3B
structural_interaction_variant	KATNAL2
structural_interaction_variant	KATNAL2
structural_interaction_variant	KATNAL2
stop_gained	KATNAL2
stop_gained	HDHD2
structural_interaction_variant	SKOR2
structural_interaction_variant	SKOR2
structural_interaction_variant	SKOR2
structural_interaction_variant	ZBTB7C
structural_interaction_variant	ZBTB7C
structural_interaction_variant	ZBTB7C
structural_interaction_variant	CTIF
structural_interaction_variant	CTIF
structural_interaction_variant	SMAD7
structural_interaction_variant	C18orf32
start_lost	RPL17
structural_interaction_variant	LIPG
structural_interaction_variant	MYO5B
structural_interaction_variant	MYO5B
stop_gained	MYO5B
structural_interaction_variant	CCDC11
structural_interaction_variant	CCDC11
stop_gained	CCDC11
structural_interaction_variant	CCDC11
structural_interaction_variant	MBD1
structural_interaction_variant	MBD1
structural_interaction_variant	CXXC1
frameshift_variant	SKA1
structural_interaction_variant	MAPK4
structural_interaction_variant	MAPK4
structural_interaction_variant	MAPK4
structural_interaction_variant	MAPK4
structural_interaction_variant	MAPK4
structural_interaction_variant	MAPK4
structural_interaction_variant	MAPK4
missense_variant&splice_region_variant	MRO
structural_interaction_variant	MRO

structural_interaction_variant	DCC
structural_interaction_variant	DCC
structural_interaction_variant	DCC
structural_interaction_variant	DCC
structural_interaction_variant	MBD2
structural_interaction_variant	MBD2
frameshift_variant	POLI
structural_interaction_variant	POLI
structural_interaction_variant	POLI
structural_interaction_variant	POLI
structural_interaction_variant	POLI
structural_interaction_variant	POLI
structural_interaction_variant	POLI
structural_interaction_variant	POLI
structural_interaction_variant	POLI
frameshift_variant&start_lost	STARD6
structural_interaction_variant	STARD6
structural_interaction_variant	STARD6
structural_interaction_variant	DYNAP
structural_interaction_variant	DYNAP
structural_interaction_variant	WDR7
structural_interaction_variant	WDR7
structural_interaction_variant	WDR7
structural_interaction_variant	WDR7
structural_interaction_variant	WDR7
structural_interaction_variant	WDR7
structural_interaction_variant	WDR7
structural_interaction_variant	WDR7
missense_variant&splice_region_variant	ST8SIA3
structural_interaction_variant	ST8SIA3
structural_interaction_variant	ST8SIA3
structural_interaction_variant	ONECUT2
structural_interaction_variant	ONECUT2
structural_interaction_variant	ONECUT2
structural_interaction_variant	ONECUT2
structural_interaction_variant	FECH
structural_interaction_variant	NARS
structural_interaction_variant	NEDD4L
structural_interaction_variant	ALPK2
stop_gained	ALPK2
structural_interaction_variant	ALPK2
conservative_inframe_deletion	ALPK2
structural_interaction_variant	ALPK2
structural_interaction_variant	ALPK2
structural_interaction_variant	MALT1
structural_interaction_variant	ZNF532
structural_interaction_variant	CPLX4
structural_interaction_variant	CPLX4

frameshift_variant	CCBE1
structural_interaction_variant	CCBE1
structural_interaction_variant	CDH20
splice_donor_variant&intron_variant	CDH20
structural_interaction_variant	CDH20
structural_interaction_variant	CDH20
structural_interaction_variant	CDH20
structural_interaction_variant	RNF152
structural_interaction_variant	RNF152
structural_interaction_variant	PIGN
structural_interaction_variant	KIAA1468
missense_variant&splice_region_variant	KIAA1468
structural_interaction_variant	KIAA1468
structural_interaction_variant	KIAA1468
structural_interaction_variant	KIAA1468
structural_interaction_variant	TNFRSF11A
structural_interaction_variant	ZCCHC2
structural_interaction_variant	ZCCHC2
structural_interaction_variant	PHLPP1
structural_interaction_variant	PHLPP1
structural_interaction_variant	PHLPP1
structural_interaction_variant	PHLPP1
structural_interaction_variant	PHLPP1
structural_interaction_variant	PHLPP1
stop_gained	PHLPP1
structural_interaction_variant	VPS4B
missense_variant&splice_region_variant	VPS4B
structural_interaction_variant	SERPINB5
missense_variant&splice_region_variant	SERPINB5
structural_interaction_variant	SERPINB5
stop_gained	SERPINB5
structural_interaction_variant	SERPINB5
structural_interaction_variant	SERPINB5
structural_interaction_variant	SERPINB5
structural_interaction_variant	SERPINB12
structural_interaction_variant	SERPINB12
structural_interaction_variant	SERPINB13
structural_interaction_variant	SERPINB13
structural_interaction_variant	SERPINB4
structural_interaction_variant	SERPINB3
structural_interaction_variant	SERPINB3
structural_interaction_variant	SERPINB11
stop_gained	SERPINB11
structural_interaction_variant	SERPINB7
stop_gained	SERPINB2
disruptive_inframe_deletion	SERPINB2
structural_interaction_variant	SERPINB2
structural_interaction_variant	SERPINB10

splice_donor_variant&intron_variant	SERPINB10
structural_interaction_variant	SERPINB10
structural_interaction_variant	CDH7
structural_interaction_variant	CDH7
structural_interaction_variant	CDH7
structural_interaction_variant	CDH7
structural_interaction_variant	CDH7
splice_acceptor_variant&intron_variant	CDH19
structural_interaction_variant	CDH19
structural_interaction_variant	CDH19
structural_interaction_variant	CDH19
structural_interaction_variant	CDH19
structural_interaction_variant	DSEL
structural_interaction_variant	DSEL
structural_interaction_variant	DSEL
frameshift_variant	DSEL
structural_interaction_variant	DSEL
structural_interaction_variant	DSEL
structural_interaction_variant	DSEL
structural_interaction_variant	TMX3
structural_interaction_variant	TMX3
structural_interaction_variant	TMX3
structural_interaction_variant	CCDC102B
structural_interaction_variant	CCDC102B
frameshift_variant	CCDC102B
structural_interaction_variant	CCDC102B
missense_variant&splice_region_variant	CD226
structural_interaction_variant	RTTN
stop_gained	RTTN
structural_interaction_variant	RTTN
structural_interaction_variant	RTTN
structural_interaction_variant	RTTN
structural_interaction_variant	RTTN
structural_interaction_variant	SOCS6
structural_interaction_variant	SOCS6
structural_interaction_variant	SOCS6
structural_interaction_variant	SOCS6
structural_interaction_variant	NETO1
frameshift_variant	FBXO15
structural_interaction_variant	TIMM21
structural_interaction_variant	TIMM21
structural_interaction_variant	C18orf63
stop_gained	C18orf63
structural_interaction_variant	C18orf63
frameshift_variant	FAM69C
structural_interaction_variant	CNDP2
structural_interaction_variant	CNDP2
structural_interaction_variant	CNDP1

structural_interaction_variant	CNDP1
structural_interaction_variant	CNDP1
structural_interaction_variant	CNDP1
structural_interaction_variant	ZNF407
structural_interaction_variant	ZNF407
structural_interaction_variant	ZNF407
structural_interaction_variant	ZNF407
structural_interaction_variant	ZNF407
structural_interaction_variant	ZADH2
structural_interaction_variant	ZADH2
structural_interaction_variant	ZNF516
structural_interaction_variant	ZNF516
structural_interaction_variant	ZNF516
frameshift_variant	ZNF516
structural_interaction_variant	ZNF516
structural_interaction_variant	ZNF516
structural_interaction_variant	ZNF516
structural_interaction_variant	ZNF516
structural_interaction_variant	ZNF236
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structural_interaction_variant	ZNF236
structural_interaction_variant	ZNF236
structural_interaction_variant	ZNF236
structural_interaction_variant	ZNF236
frameshift_variant	MBP
structural_interaction_variant	GALR1
structural_interaction_variant	GALR1
structural_interaction_variant	SALL3
structural_interaction_variant	SALL3
structural_interaction_variant	SALL3
structural_interaction_variant	SALL3
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structural_interaction_variant	SALL3
structural_interaction_variant	SALL3
structural_interaction_variant	SALL3
structural_interaction_variant	ATP9B
structural_interaction_variant	ATP9B
structural_interaction_variant	ATP9B
frameshift_variant	ATP9B
structural_interaction_variant	ATP9B
structural_interaction_variant	ATP9B
structural_interaction_variant	ATP9B
structural_interaction_variant	ATP9B
structural_interaction_variant	NFATC1
structural_interaction_variant	NFATC1
structural_interaction_variant	NFATC1

structural_interaction_variant	NFATC1
structural_interaction_variant	NFATC1
missense_variant&splice_region_variant	NFATC1
structural_interaction_variant	NFATC1
structural_interaction_variant	NFATC1
structural_interaction_variant	NFATC1
structural_interaction_variant	CTDP1
structural_interaction_variant	CTDP1
structural_interaction_variant	CTDP1
structural_interaction_variant	PQLC1
frameshift_variant	RBFA
structural_interaction_variant	RBFA
structural_interaction_variant	ADNP2
structural_interaction_variant	ADNP2
structural_interaction_variant	ADNP2
structural_interaction_variant	ADNP2
structural_interaction_variant	ADNP2
structural_interaction_variant	ADNP2
structural_interaction_variant	PARD6G
frameshift_variant	PPAP2C
structural_interaction_variant	PPAP2C
structural_interaction_variant	PPAP2C
structural_interaction_variant	PPAP2C
structural_interaction_variant	PPAP2C
structural_interaction_variant	THEG
structural_interaction_variant	THEG
structural_interaction_variant	THEG
structural_interaction_variant	SHC2
structural_interaction_variant	MADCAM1
structural_interaction_variant	GZMM
structural_interaction_variant	GZMM
structural_interaction_variant	BSG
structural_interaction_variant	BSG
conservative_inframe_deletion	POLRMT
structural_interaction_variant	POLRMT
frameshift_variant	PRSS57
structural_interaction_variant	PRSS57
structural_interaction_variant	PALM
structural_interaction_variant	PALM
structural_interaction_variant	PALM
structural_interaction_variant	MISP
structural_interaction_variant	MISP
structural_interaction_variant	MISP
structural_interaction_variant	MISP
frameshift_variant	MISP
structural_interaction_variant	LPPR3
structural_interaction_variant	LPPR3
structural_interaction_variant	LPPR3

structural_interaction_variant	LPPR3
structural_interaction_variant	LPPR3
structural_interaction_variant	AZU1
structural_interaction_variant	AZU1
structural_interaction_variant	AZU1
structural_interaction_variant	ELANE
structural_interaction_variant	MED16
structural_interaction_variant	MED16
structural_interaction_variant	MED16
structural_interaction_variant	R3HDM4
structural_interaction_variant	WDR18
frameshift_variant	GRIN3B
structural_interaction_variant	GRIN3B
structural_interaction_variant	GRIN3B
structural_interaction_variant	GRIN3B
structural_interaction_variant	GRIN3B
structural_interaction_variant	TMEM259
splice_donor_variant&intron_variant	CNN2
structural_interaction_variant	CNN2
structural_interaction_variant	CNN2
stop_gained	ABCA7
missense_variant&splice_region_variant	HMHA1
structural_interaction_variant	HMHA1
structural_interaction_variant	HMHA1
structural_interaction_variant	GPX4
splice_donor_variant&intron_variant	GPX4
structural_interaction_variant	SBNO2
structural_interaction_variant	C19orf26
stop_gained	ATP5D
structural_interaction_variant	CIRBP
structural_interaction_variant	MUM1
structural_interaction_variant	MUM1
structural_interaction_variant	MUM1
structural_interaction_variant	MUM1
structural_interaction_variant	APC2
structural_interaction_variant	APC2
structural_interaction_variant	REEP6
structural_interaction_variant	REEP6
structural_interaction_variant	REEP6
structural_interaction_variant	ADAMTSL5
structural_interaction_variant	ATP8B3
structural_interaction_variant	ATP8B3
stop_gained	ATP8B3
structural_interaction_variant	ATP8B3
structural_interaction_variant	ATP8B3
splice_donor_variant&intron_variant	ATP8B3
missense_variant&splice_region_variant	ATP8B3
structural_interaction_variant	ATP8B3

structural_interaction_variant	ATP8B3
structural_interaction_variant	REXO1
structural_interaction_variant	REXO1
structural_interaction_variant	REXO1
structural_interaction_variant	REXO1
structural_interaction_variant	KLF16
stop_gained	ABHD17A
structural_interaction_variant	ADAT3
structural_interaction_variant	ADAT3
structural_interaction_variant	SCAMP4
structural_interaction_variant	SCAMP4
structural_interaction_variant	MKNK2
structural_interaction_variant	MKNK2
structural_interaction_variant	MKNK2
structural_interaction_variant	MOB3A
structural_interaction_variant	MOB3A
structural_interaction_variant	IZUMO4
structural_interaction_variant	IZUMO4
structural_interaction_variant	IZUMO4
structural_interaction_variant	DOT1L
structural_interaction_variant	DOT1L
structural_interaction_variant	DOT1L
structural_interaction_variant	DOT1L
structural_interaction_variant	DOT1L
structural_interaction_variant	DOT1L
structural_interaction_variant	LINGO3
structural_interaction_variant	LSM7
stop_gained	TMPRSS9
stop_gained	TMPRSS9
splice_donor_variant&intron_variant	TMPRSS9
structural_interaction_variant	TMPRSS9
stop_gained	TMPRSS9
structural_interaction_variant	TIMM13
structural_interaction_variant	LMNB2
structural_interaction_variant	LMNB2
structural_interaction_variant	LMNB2
structural_interaction_variant	LMNB2
structural_interaction_variant	GADD45B
structural_interaction_variant	GADD45B
structural_interaction_variant	DIRAS1
structural_interaction_variant	SLC39A3
frameshift_variant	SLC39A3
structural_interaction_variant	THOP1
structural_interaction_variant	THOP1
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structural_interaction_variant	THOP1
structural_interaction_variant	ZNF554

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structural_interaction_variant	TLE6
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structural_interaction_variant	TLE6
structural_interaction_variant	TLE6
structural_interaction_variant	TLE2
structural_interaction_variant	TLE2
structural_interaction_variant	GNA15
structural_interaction_variant	S1PR4
structural_interaction_variant	S1PR4
structural_interaction_variant	NCLN
missense_variant&splice_region_variant	NCLN
structural_interaction_variant	C19orf77
structural_interaction_variant	DOHH
structural_interaction_variant	FZR1
structural_interaction_variant	FZR1
structural_interaction_variant	FZR1
structural_interaction_variant	MFSD12
structural_interaction_variant	MFSD12
structural_interaction_variant	MFSD12
structural_interaction_variant	MFSD12

structural_interaction_variant	HMG20B
missense_variant&splice_region_variant	GIPC3
structural_interaction_variant	CACTIN
structural_interaction_variant	CACTIN
structural_interaction_variant	PIP5K1C
structural_interaction_variant	PIP5K1C
stop_gained	TJP3
structural_interaction_variant	TJP3
structural_interaction_variant	TJP3
structural_interaction_variant	TJP3
structural_interaction_variant	TJP3
structural_interaction_variant	TJP3
structural_interaction_variant	TJP3
stop_gained	TJP3
splice_donor_variant&intron_variant	TJP3
structural_interaction_variant	TJP3
structural_interaction_variant	TJP3
structural_interaction_variant	TJP3
splice_acceptor_variant&intron_variant	MATK
frameshift_variant	MATK
stop_gained	ZFR2
structural_interaction_variant	ATCAY
structural_interaction_variant	NMRK2
structural_interaction_variant	NMRK2
structural_interaction_variant	EEF2
structural_interaction_variant	EEF2
structural_interaction_variant	EEF2
structural_interaction_variant	PIAS4
structural_interaction_variant	ZBTB7A
structural_interaction_variant	SIRT6
structural_interaction_variant	ANKRD24
structural_interaction_variant	ANKRD24
structural_interaction_variant	ANKRD24
stop_gained	CCDC94
structural_interaction_variant	SHD
structural_interaction_variant	SHD
structural_interaction_variant	SHD
structural_interaction_variant	FSD1
structural_interaction_variant	FSD1
structural_interaction_variant	FSD1
structural_interaction_variant	FSD1
splice_acceptor_variant&intron_variant	STAP2
structural_interaction_variant	MPND
structural_interaction_variant	MPND
structural_interaction_variant	MPND
structural_interaction_variant	CHAF1A
structural_interaction_variant	CHAF1A
structural_interaction_variant	CHAF1A

frameshift_variant	UBXN6
structural_interaction_variant	UBXN6
structural_interaction_variant	HDGFRP2
structural_interaction_variant	HDGFRP2
structural_interaction_variant	HDGFRP2
structural_interaction_variant	PLIN4
frameshift_variant	PLIN4
structural_interaction_variant	PLIN4
structural_interaction_variant	PLIN4
frameshift_variant	PLIN4
structural_interaction_variant	PLIN4
structural_interaction_variant	PLIN4
structural_interaction_variant	PLIN4
structural_interaction_variant	PLIN4
structural_interaction_variant	PLIN5
structural_interaction_variant	PLIN5
structural_interaction_variant	PLIN5
structural_interaction_variant	PLIN5
structural_interaction_variant	SEMA6B
frameshift_variant	C19orf10
stop_gained&splice_region_variant	DPP9
structural_interaction_variant	DPP9
frameshift_variant	DPP9
structural_interaction_variant	TICAM1
structural_interaction_variant	TICAM1
structural_interaction_variant	TICAM1
structural_interaction_variant	PLIN3
missense_variant&splice_region_variant	PLIN3
structural_interaction_variant	PLIN3
stop_gained	ARRDC5
structural_interaction_variant	ARRDC5
structural_interaction_variant	KDM4B
structural_interaction_variant	PTPRS
structural_interaction_variant	PTPRS
structural_interaction_variant	PTPRS
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structural_interaction_variant	PTPRS
structural_interaction_variant	PTPRS
structural_interaction_variant	ZNRF4
structural_interaction_variant	SAFB2
structural_interaction_variant	SAFB2
structural_interaction_variant	SAFB2
structural_interaction_variant	SAFB2

structural_interaction_variant	SAFB
structural_interaction_variant	SAFB
splice_acceptor_variant&splice_region_variant&3_pr	LONP1
structural_interaction_variant	LONP1
structural_interaction_variant	CATSPERD
structural_interaction_variant	CATSPERD
splice_donor_variant&intron_variant	CATSPERD
structural_interaction_variant	PRR22
structural_interaction_variant	DUS3L
conservative_inframe_deletion	DUS3L
structural_interaction_variant	DUS3L
structural_interaction_variant	DUS3L
structural_interaction_variant	FUT6
structural_interaction_variant	FUT6
structural_interaction_variant	VMAC
structural_interaction_variant	CAPS
structural_interaction_variant	CAPS
structural_interaction_variant	CAPS
structural_interaction_variant	CAPS
structural_interaction_variant	CAPS
structural_interaction_variant	CAPS
structural_interaction_variant	RANBP3
frameshift_variant	RANBP3
missense_variant&splice_region_variant	RFX2
missense_variant&splice_region_variant	RFX2
structural_interaction_variant	ACSBG2
structural_interaction_variant	ACER1
structural_interaction_variant	GTF2F1
structural_interaction_variant	GTF2F1
structural_interaction_variant	KHSRP
structural_interaction_variant	SLC25A41
structural_interaction_variant	SLC25A41
structural_interaction_variant	SLC25A41
structural_interaction_variant	SLC25A23
splice_donor_variant&intron_variant	SLC25A23
structural_interaction_variant	SLC25A23
structural_interaction_variant	SLC25A23
structural_interaction_variant	SLC25A23
structural_interaction_variant	CRB3
structural_interaction_variant	DENND1C
structural_interaction_variant	DENND1C
structural_interaction_variant	DENND1C
structural_interaction_variant	DENND1C
structural_interaction_variant	TNFSF9
structural_interaction_variant	TNFSF9
structural_interaction_variant	TNFSF14
structural_interaction_variant	C3
structural_interaction_variant	C3

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structural_interaction_variant	C3
structural_interaction_variant	GPR108
structural_interaction_variant	TRIP10
stop_gained	SH2D3A
structural_interaction_variant	SH2D3A
structural_interaction_variant	SH2D3A
structural_interaction_variant	SH2D3A
splice_acceptor_variant&intron_variant	SH2D3A
structural_interaction_variant	VAV1
structural_interaction_variant	VAV1
missense_variant&splice_region_variant	VAV1
structural_interaction_variant	EMR1
splice_acceptor_variant&intron_variant	EMR1
structural_interaction_variant	EMR1
structural_interaction_variant	EMR1
frameshift_variant	ZNF557
structural_interaction_variant	ZNF557
structural_interaction_variant	ZNF557
frameshift_variant	INSR
structural_interaction_variant	INSR
structural_interaction_variant	ARHGEF18
structural_interaction_variant	ARHGEF18
structural_interaction_variant	ARHGEF18
structural_interaction_variant	ARHGEF18
structural_interaction_variant	ARHGEF18
structural_interaction_variant	ZNF358
structural_interaction_variant	PNPLA6
structural_interaction_variant	CAMSAP3
structural_interaction_variant	CAMSAP3
structural_interaction_variant	STXBP2
structural_interaction_variant	STXBP2
structural_interaction_variant	RETN
structural_interaction_variant	TRAPPC5
structural_interaction_variant	TRAPPC5
structural_interaction_variant	TRAPPC5
structural_interaction_variant	FCER2
stop_gained	FCER2
splice_donor_variant&intron_variant	FCER2
structural_interaction_variant	FCER2
structural_interaction_variant	FCER2
structural_interaction_variant	CLEC4G
stop_gained	CD209
structural_interaction_variant	CLEC4M
structural_interaction_variant	EVI5L

structural_interaction_variant	EVI5L
missense_variant&splice_region_variant	EVI5L
structural_interaction_variant	LRRC8E
structural_interaction_variant	LRRC8E
structural_interaction_variant	LRRC8E
structural_interaction_variant	AC010336.1
structural_interaction_variant	AC010336.1
structural_interaction_variant	LRRC8E
disruptive_inframe_deletion	LRRC8E
structural_interaction_variant	MAP2K7
structural_interaction_variant	MAP2K7
structural_interaction_variant	SNAPC2
structural_interaction_variant	SNAPC2
structural_interaction_variant	SNAPC2
structural_interaction_variant	SNAPC2
splice_acceptor_variant&intron_variant	CCL25
structural_interaction_variant	FBN3
structural_interaction_variant	FBN3
frameshift_variant	FBN3
missense_variant&splice_region_variant	FBN3
structural_interaction_variant	FBN3
structural_interaction_variant	FBN3
structural_interaction_variant	FBN3
frameshift_variant&stop_gained&splice_region_varia	FBN3
splice_donor_variant&intron_variant	FBN3
structural_interaction_variant	FBN3
structural_interaction_variant	FBN3
structural_interaction_variant	FBN3
structural_interaction_variant	FBN3
structural_interaction_variant	FBN3
structural_interaction_variant	FBN3
structural_interaction_variant	FBN3
stop_gained	FBN3
structural_interaction_variant	CERS4
splice_donor_variant&intron_variant	CERS4
missense_variant&splice_region_variant	CERS4
structural_interaction_variant	CERS4
structural_interaction_variant	CD320
structural_interaction_variant	MARCH2
structural_interaction_variant	HNRNPM
structural_interaction_variant	HNRNPM
structural_interaction_variant	PRAM1
structural_interaction_variant	PRAM1
structural_interaction_variant	MYO1F
structural_interaction_variant	MYO1F
structural_interaction_variant	MYO1F
structural_interaction_variant	MYO1F
structural_interaction_variant	MYO1F

structural_interaction_variant	ADAMTS10
frameshift_variant	ACTL9
structural_interaction_variant	ACTL9
structural_interaction_variant	ACTL9
structural_interaction_variant	ACTL9
stop_gained	OR2Z1
structural_interaction_variant	ZNF558
frameshift_variant	ZNF558
structural_interaction_variant	ZNF558
structural_interaction_variant	ZNF558
structural_interaction_variant	MBD3L1
structural_interaction_variant	MBD3L1
structural_interaction_variant	MUC16
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frameshift_variant	MUC16
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frameshift_variant	MUC16
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structural_interaction_variant	MUC16
frameshift_variant	MUC16
structural_interaction_variant	MUC16
stop_gained	MUC16
stop_gained	MUC16
structural_interaction_variant	MUC16
structural_interaction_variant	MUC16
structural_interaction_variant	MUC16
structural_interaction_variant	MUC16
structural_interaction_variant	MUC16
frameshift_variant	MUC16
conservative_inframe_deletion	MUC16
structural_interaction_variant	OR7G2
structural_interaction_variant	OR7G2
structural_interaction_variant	OR7G1
structural_interaction_variant	OR7G1
structural_interaction_variant	OR7G1
structural_interaction_variant	ZNF317

structural_interaction_variant	ZNF317
structural_interaction_variant	OR7D2
structural_interaction_variant	OR7D2
structural_interaction_variant	OR7E24
structural_interaction_variant	OR7E24
structural_interaction_variant	ZNF699
frameshift_variant	ZNF699
structural_interaction_variant	ZNF699
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structural_interaction_variant	ZNF699
structural_interaction_variant	ZNF559
structural_interaction_variant	ZNF559
structural_interaction_variant	ZNF559
frameshift_variant	ZNF177
frameshift_variant	ZNF177
structural_interaction_variant	ZNF177
structural_interaction_variant	ZNF266
structural_interaction_variant	ZNF266
frameshift_variant	ZNF266
stop_gained	ZNF266
structural_interaction_variant	ZNF560
frameshift_variant	ZNF560
structural_interaction_variant	ZNF560
stop_gained	ZNF560
structural_interaction_variant	ZNF560
structural_interaction_variant	ZNF426
structural_interaction_variant	ZNF426
structural_interaction_variant	ZNF426
structural_interaction_variant	ZNF121
structural_interaction_variant	ZNF562
frameshift_variant	ZNF812
structural_interaction_variant	ZNF812
structural_interaction_variant	ZNF812
structural_interaction_variant	ZNF846
structural_interaction_variant	ZNF846
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structural_interaction_variant	ZNF846
structural_interaction_variant	FBXL12
structural_interaction_variant	FBXL12
structural_interaction_variant	OLFM2
structural_interaction_variant	OLFM2
structural_interaction_variant	COL5A3
structural_interaction_variant	COL5A3
structural_interaction_variant	COL5A3
structural_interaction_variant	COL5A3
frameshift_variant	COL5A3
stop_gained	RDH8

structural_interaction_variant	RDH8
stop_gained	ANGPTL6
structural_interaction_variant	ANGPTL6
structural_interaction_variant	ANGPTL6
structural_interaction_variant	P2RY11
structural_interaction_variant	P2RY11
stop_gained	P2RY11
structural_interaction_variant	S1PR2
structural_interaction_variant	MRPL4
structural_interaction_variant	MRPL4
frameshift_variant	MRPL4
structural_interaction_variant	ICAM1
structural_interaction_variant	ICAM4
structural_interaction_variant	ICAM4
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structural_interaction_variant	ICAM5
stop_gained	ZGLP1
structural_interaction_variant	FDX1L
structural_interaction_variant	RAVER1
structural_interaction_variant	ICAM3
structural_interaction_variant	ICAM3
structural_interaction_variant	ICAM3
structural_interaction_variant	ICAM3
stop_gained	ICAM3
structural_interaction_variant	ICAM3
structural_interaction_variant	ICAM3
structural_interaction_variant	TYK2
structural_interaction_variant	CDC37
conservative_inframe_deletion	PDE4A
structural_interaction_variant	PDE4A
structural_interaction_variant	KEAP1
structural_interaction_variant	ATG4D
structural_interaction_variant	ATG4D
structural_interaction_variant	ATG4D
structural_interaction_variant	ATG4D
structural_interaction_variant	ATG4D
structural_interaction_variant	ATG4D
stop_gained	ATG4D
conservative_inframe_deletion	KRI1
structural_interaction_variant	KRI1
structural_interaction_variant	KRI1
structural_interaction_variant	KRI1

structural_interaction_variant	CDKN2D
structural_interaction_variant	AP1M2
structural_interaction_variant	AP1M2
structural_interaction_variant	AP1M2
structural_interaction_variant	SLC44A2
structural_interaction_variant	SLC44A2
structural_interaction_variant	SLC44A2
splice_donor_variant&intron_variant	SLC44A2
structural_interaction_variant	SLC44A2
structural_interaction_variant	ILF3
frameshift_variant	ILF3
frameshift_variant	ILF3
structural_interaction_variant	ILF3
structural_interaction_variant	ILF3
structural_interaction_variant	QTRT1
structural_interaction_variant	QTRT1
structural_interaction_variant	QTRT1
structural_interaction_variant	QTRT1
structural_interaction_variant	DNM2
structural_interaction_variant	TMED1
structural_interaction_variant	TMED1
structural_interaction_variant	YIPF2
structural_interaction_variant	C19orf52
structural_interaction_variant	SMARCA4
stop_gained&splice_region_variant	LDLR
structural_interaction_variant	KANK2
structural_interaction_variant	KANK2
structural_interaction_variant	KANK2
structural_interaction_variant	KANK2
structural_interaction_variant	KANK2
structural_interaction_variant	KANK2
structural_interaction_variant	KANK2
structural_interaction_variant	DOCK6
structural_interaction_variant	DOCK6
frameshift_variant	DOCK6
structural_interaction_variant	DOCK6
structural_interaction_variant	DOCK6
structural_interaction_variant	RAB3D
structural_interaction_variant	RAB3D
splice_acceptor_variant&intron_variant	CCDC159
structural_interaction_variant	DKFZP761J1410
structural_interaction_variant	DKFZP761J1410
structural_interaction_variant	DKFZP761J1410
structural_interaction_variant	EPOR
missense_variant&splice_region_variant	RGL3
stop_gained	RGL3
structural_interaction_variant	RGL3
structural_interaction_variant	RGL3

splice_acceptor_variant&intron_variant	RGL3
structural_interaction_variant	RGL3
stop_gained	RGL3
splice_donor_variant&intron_variant	RGL3
frameshift_variant	CCDC151
structural_interaction_variant	CCDC151
frameshift_variant	CCDC151
structural_interaction_variant	ELAVL3
frameshift_variant	ECSIT
structural_interaction_variant	ECSIT
structural_interaction_variant	ECSIT
missense_variant&splice_region_variant	CNN1
structural_interaction_variant	CNN1
structural_interaction_variant	ACP5
structural_interaction_variant	ZNF627
structural_interaction_variant	ZNF823
structural_interaction_variant	ZNF823
structural_interaction_variant	ZNF823
structural_interaction_variant	ZNF823
structural_interaction_variant	ZNF441
stop_gained	ZNF441
structural_interaction_variant	ZNF441
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structural_interaction_variant	ZNF441
frameshift_variant	ZNF491
structural_interaction_variant	ZNF491
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structural_interaction_variant	ZNF433
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structural_interaction_variant	ZNF433
frameshift_variant	ZNF433
structural_interaction_variant	ZNF433
structural_interaction_variant	ZNF878
frameshift_variant	ZNF878
structural_interaction_variant	ZNF878
structural_interaction_variant	ZNF878
frameshift_variant	ZNF844
frameshift_variant	ZNF844
structural_interaction_variant	ZNF844
structural_interaction_variant	ZNF844
structural_interaction_variant	ZNF20
structural_interaction_variant	ZNF20
structural_interaction_variant	ZNF625
frameshift_variant	ZNF625
structural_interaction_variant	ZNF625
stop_gained	ZNF625

structural_interaction_variant	ZNF136
structural_interaction_variant	ZNF136
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structural_interaction_variant	ZNF709
structural_interaction_variant	ZNF564
structural_interaction_variant	ZNF490
structural_interaction_variant	ZNF791
structural_interaction_variant	ZNF791
structural_interaction_variant	MAN2B1
structural_interaction_variant	DHPS
frameshift_variant	FBXW9
missense_variant&splice_region_variant	FBXW9
structural_interaction_variant	FBXW9
structural_interaction_variant	FBXW9
structural_interaction_variant	TNPO2
structural_interaction_variant	ASNA1
structural_interaction_variant	ASNA1
structural_interaction_variant	BEST2
stop_gained	BEST2
structural_interaction_variant	HOOK2
structural_interaction_variant	JUNB
structural_interaction_variant	JUNB
structural_interaction_variant	JUNB
structural_interaction_variant	PRDX2
structural_interaction_variant	MAST1
structural_interaction_variant	MAST1
structural_interaction_variant	MAST1
structural_interaction_variant	MAST1
structural_interaction_variant	GCDH
structural_interaction_variant	CALR
missense_variant&splice_region_variant	CALR
structural_interaction_variant	GADD45GIP1
structural_interaction_variant	DAND5
structural_interaction_variant	TRMT1
structural_interaction_variant	STX10
stop_gained	STX10

structural_interaction_variant	STX10
structural_interaction_variant	STX10
structural_interaction_variant	CACNA1A
structural_interaction_variant	CACNA1A
structural_interaction_variant	CACNA1A
frameshift_variant	CCDC130
structural_interaction_variant	CCDC130
structural_interaction_variant	CCDC130
structural_interaction_variant	CCDC130
structural_interaction_variant	MRI1
structural_interaction_variant	MRI1
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structural_interaction_variant	C19orf53
structural_interaction_variant	C19orf53
structural_interaction_variant	C19orf53
structural_interaction_variant	ZSWIM4
structural_interaction_variant	ZSWIM4
structural_interaction_variant	ZSWIM4
structural_interaction_variant	NANOS3
structural_interaction_variant	NANOS3
structural_interaction_variant	C19orf57
structural_interaction_variant	C19orf57
stop_gained	C19orf57
structural_interaction_variant	C19orf57
structural_interaction_variant	CC2D1A
structural_interaction_variant	CC2D1A
structural_interaction_variant	CC2D1A
structural_interaction_variant	DCAF15
structural_interaction_variant	RFX1
structural_interaction_variant	RFX1
structural_interaction_variant	RFX1
splice_acceptor_variant&intron_variant	RFX1
structural_interaction_variant	RFX1
structural_interaction_variant	IL27RA
structural_interaction_variant	IL27RA
stop_gained	IL27RA
structural_interaction_variant	PALM3
missense_variant&splice_region_variant	PRKACA
structural_interaction_variant	LPHN1
structural_interaction_variant	LPHN1
structural_interaction_variant	LPHN1
structural_interaction_variant	LPHN1
structural_interaction_variant	CD97
structural_interaction_variant	CD97
structural_interaction_variant	CD97
structural_interaction_variant	CD97

structural_interaction_variant	CD97
missense_variant&splice_region_variant	CD97
structural_interaction_variant	PKN1
structural_interaction_variant	PKN1
structural_interaction_variant	PKN1
structural_interaction_variant	TECR
frameshift_variant	TECR
structural_interaction_variant	TECR
structural_interaction_variant	CLEC17A
stop_gained	EMR3
structural_interaction_variant	EMR3
structural_interaction_variant	ZNF333
structural_interaction_variant	ZNF333
structural_interaction_variant	ZNF333
structural_interaction_variant	ZNF333
structural_interaction_variant	ZNF333
structural_interaction_variant	ZNF333
structural_interaction_variant	EMR2
stop_gained	EMR2
structural_interaction_variant	OR7C1
structural_interaction_variant	OR7C1
stop_gained	OR7C1
structural_interaction_variant	OR7A10
structural_interaction_variant	OR7A10
structural_interaction_variant	OR7A10
structural_interaction_variant	OR7A17
structural_interaction_variant	OR7A17
structural_interaction_variant	OR7A17
structural_interaction_variant	OR7A17
frameshift_variant	OR7A17
structural_interaction_variant	OR7C2
stop_gained	OR7C2
missense_variant&splice_region_variant	CASP14
structural_interaction_variant	OR1I1
structural_interaction_variant	OR1I1
structural_interaction_variant	ILVBL
structural_interaction_variant	ILVBL
structural_interaction_variant	ILVBL
structural_interaction_variant	ILVBL
structural_interaction_variant	NOTCH3
structural_interaction_variant	EPHX3
structural_interaction_variant	AKAP8
structural_interaction_variant	AKAP8L
frameshift_variant	AKAP8L
structural_interaction_variant	AKAP8L
structural_interaction_variant	AKAP8L
structural_interaction_variant	RASAL3
structural_interaction_variant	RASAL3

structural_interaction_variant	RASAL3
missense_variant&splice_region_variant	PGLYRP2
structural_interaction_variant	CYP4F12
splice_donor_variant&intron_variant	CYP4F12
structural_interaction_variant	CYP4F12
structural_interaction_variant	CYP4F12
structural_interaction_variant	CYP4F12
frameshift_variant	CYP4F2
frameshift_variant	CYP4F2
structural_interaction_variant	CYP4F11
structural_interaction_variant	CYP4F11
structural_interaction_variant	CYP4F11
structural_interaction_variant	CYP4F11
structural_interaction_variant	OR10H4
structural_interaction_variant	RAB8A
structural_interaction_variant	HSH2D
structural_interaction_variant	HSH2D
structural_interaction_variant	HSH2D
structural_interaction_variant	HSH2D
structural_interaction_variant	HSH2D
structural_interaction_variant	HSH2D
structural_interaction_variant	CIB3
missense_variant&splice_region_variant	CIB3
structural_interaction_variant	AP1M1
structural_interaction_variant	KLF2
structural_interaction_variant	EPS15L1
structural_interaction_variant	CALR3
structural_interaction_variant	CALR3
structural_interaction_variant	CALR3
structural_interaction_variant	C19orf44
structural_interaction_variant	CHERP
structural_interaction_variant	MED26
structural_interaction_variant	CTC-429P9.4
structural_interaction_variant	CTC-429P9.4
structural_interaction_variant	NWD1
structural_interaction_variant	NWD1
structural_interaction_variant	NWD1
structural_interaction_variant	SIN3B
structural_interaction_variant	SIN3B
structural_interaction_variant	SIN3B
structural_interaction_variant	CPAMD8
structural_interaction_variant	MYO9B
structural_interaction_variant	MYO9B
structural_interaction_variant	MYO9B
structural_interaction_variant	MYO9B
structural_interaction_variant	MYO9B
structural_interaction_variant	MYO9B
structural_interaction_variant	MYO9B

structural_interaction_variant	USE1
structural_interaction_variant	USE1
structural_interaction_variant	OCEL1
structural_interaction_variant	USHBP1
structural_interaction_variant	USHBP1
missense_variant&splice_region_variant	USHBP1
stop_gained	USHBP1
structural_interaction_variant	ANKLE1
structural_interaction_variant	ANKLE1
structural_interaction_variant	ANKLE1
structural_interaction_variant	ANKLE1
stop_gained	PLVAP
structural_interaction_variant	PLVAP
structural_interaction_variant	PLVAP
structural_interaction_variant	PLVAP
structural_interaction_variant	BST2
structural_interaction_variant	BST2
structural_interaction_variant	MVB12A
structural_interaction_variant	NXNL1
structural_interaction_variant	NXNL1
structural_interaction_variant	FAM129C
frameshift_variant	FAM129C
structural_interaction_variant	COLGALT1
structural_interaction_variant	COLGALT1
structural_interaction_variant	COLGALT1
structural_interaction_variant	COLGALT1
structural_interaction_variant	COLGALT1
structural_interaction_variant	UNC13A
structural_interaction_variant	MAP1S
frameshift_variant	FCHO1
structural_interaction_variant	FCHO1
structural_interaction_variant	FCHO1
structural_interaction_variant	FCHO1
structural_interaction_variant	FCHO1
structural_interaction_variant	FCHO1
structural_interaction_variant	B3GNT3
structural_interaction_variant	B3GNT3
stop_gained	JAK3
structural_interaction_variant	SLC5A5
structural_interaction_variant	KCNN1
structural_interaction_variant	ARRDC2
structural_interaction_variant	ARRDC2
stop_gained	IL12RB1
stop_gained	IL12RB1
stop_gained	IL12RB1
stop_gained&splice_region_variant	IL12RB1
structural_interaction_variant	MAST3
structural_interaction_variant	MAST3

structural_interaction_variant	MAST3
structural_interaction_variant	MAST3
structural_interaction_variant	IFI30
structural_interaction_variant	IFI30
structural_interaction_variant	MPV17L2
structural_interaction_variant	RAB3A
structural_interaction_variant	RAB3A
structural_interaction_variant	PDE4C
structural_interaction_variant	PDE4C
structural_interaction_variant	PDE4C
missense_variant&splice_region_variant	PDE4C
structural_interaction_variant	PDE4C
structural_interaction_variant	KIAA1683
structural_interaction_variant	KIAA1683
structural_interaction_variant	KIAA1683
structural_interaction_variant	KIAA1683
structural_interaction_variant	KIAA1683
structural_interaction_variant	KIAA1683
structural_interaction_variant	KIAA1683
structural_interaction_variant	KIAA1683
structural_interaction_variant	PGPEP1
structural_interaction_variant	PGPEP1
structural_interaction_variant	PGPEP1
structural_interaction_variant	GDF15
structural_interaction_variant	LRRC25
structural_interaction_variant	LRRC25
structural_interaction_variant	LRRC25
structural_interaction_variant	LRRC25
structural_interaction_variant	LRRC25
structural_interaction_variant	LRRC25
structural_interaction_variant	SSBP4
structural_interaction_variant	ISYNA1
structural_interaction_variant	ISYNA1
structural_interaction_variant	ELL
structural_interaction_variant	FKBP8
structural_interaction_variant	FKBP8
structural_interaction_variant	CRLF1
structural_interaction_variant	CRLF1
structural_interaction_variant	KLHL26
structural_interaction_variant	KLHL26
structural_interaction_variant	KLHL26
structural_interaction_variant	KLHL26
structural_interaction_variant	KLHL26
structural_interaction_variant	COMP
structural_interaction_variant	COMP
structural_interaction_variant	COMP
structural_interaction_variant	COMP
structural_interaction_variant	UPF1

structural_interaction_variant	CERS1
structural_interaction_variant	COPE
structural_interaction_variant	COPE
structural_interaction_variant	COPE
structural_interaction_variant	HOMER3
structural_interaction_variant	HOMER3
structural_interaction_variant	SUGP2
structural_interaction_variant	SUGP2
structural_interaction_variant	SUGP2
structural_interaction_variant	SUGP2
structural_interaction_variant	SUGP2
structural_interaction_variant	SUGP2
structural_interaction_variant	SUGP2
missense_variant&splice_region_variant	ARMC6
structural_interaction_variant	ARMC6
structural_interaction_variant	ARMC6
structural_interaction_variant	SLC25A42
structural_interaction_variant	TMEM161A
structural_interaction_variant	MEF2BNB-MEF2B
structural_interaction_variant	NCAN
structural_interaction_variant	NCAN
structural_interaction_variant	NCAN
structural_interaction_variant	NCAN
structural_interaction_variant	HAPLN4
structural_interaction_variant	HAPLN4
structural_interaction_variant	SUGP1
missense_variant&splice_region_variant	SUGP1
structural_interaction_variant	MAU2
structural_interaction_variant	GATAD2A
structural_interaction_variant	TSSK6
structural_interaction_variant	TSSK6
structural_interaction_variant	TSSK6
structural_interaction_variant	CILP2
structural_interaction_variant	CILP2
structural_interaction_variant	CILP2
structural_interaction_variant	CILP2
structural_interaction_variant	CILP2
structural_interaction_variant	PBX4
stop_gained	PBX4
structural_interaction_variant	LPAR2
structural_interaction_variant	GMIP
structural_interaction_variant	GMIP
structural_interaction_variant	GMIP
structural_interaction_variant	GMIP
structural_interaction_variant	GMIP
structural_interaction_variant	GMIP
structural_interaction_variant	ATP13A1
frameshift_variant	ZNF101

structural_interaction_variant	ZNF101
structural_interaction_variant	ZNF101
stop_gained	ZNF101
structural_interaction_variant	ZNF14
structural_interaction_variant	ZNF14
structural_interaction_variant	ZNF253
structural_interaction_variant	ZNF253
stop_gained	ZNF253
structural_interaction_variant	ZNF682
structural_interaction_variant	ZNF682
frameshift_variant	ZNF682
frameshift_variant&stop_gained	ZNF682
missense_variant&splice_region_variant	ZNF430
structural_interaction_variant	ZNF430
structural_interaction_variant	ZNF714
structural_interaction_variant	ZNF431
structural_interaction_variant	ZNF493
structural_interaction_variant	ZNF493
structural_interaction_variant	ZNF429
structural_interaction_variant	ZNF429
structural_interaction_variant	ZNF43
frameshift_variant	ZNF729
frameshift_variant	ZNF729
structural_interaction_variant	ZNF98
structural_interaction_variant	ZNF730
structural_interaction_variant	ZNF724P
structural_interaction_variant	ZNF675
frameshift_variant	ZNF681
structural_interaction_variant	POP4
structural_interaction_variant	PLEKHF1
structural_interaction_variant	PLEKHF1
structural_interaction_variant	PLEKHF1
structural_interaction_variant	PLEKHF1
structural_interaction_variant	CCNE1
structural_interaction_variant	ZNF536
structural_interaction_variant	ZNF536
structural_interaction_variant	ZNF536
structural_interaction_variant	ZNF536
structural_interaction_variant	ZNF536
structural_interaction_variant	ZNF536
structural_interaction_variant	ZNF536
structural_interaction_variant	TSHZ3
structural_interaction_variant	TSHZ3
structural_interaction_variant	ZNF507
structural_interaction_variant	ZNF507
structural_interaction_variant	ZNF507
structural_interaction_variant	ZNF507
structural_interaction_variant	ZNF507

structural_interaction_variant	DPY19L3
missense_variant&splice_region_variant	DPY19L3
structural_interaction_variant	DPY19L3
structural_interaction_variant	DPY19L3
structural_interaction_variant	DPY19L3
frameshift_variant	ANKRD27
structural_interaction_variant	CEP89
frameshift_variant	CEP89
structural_interaction_variant	CEP89
structural_interaction_variant	CEP89
structural_interaction_variant	CEP89
stop_gained	CEP89
structural_interaction_variant	C19orf40
structural_interaction_variant	C19orf40
structural_interaction_variant	C19orf40
structural_interaction_variant	C19orf40
structural_interaction_variant	GPATCH1
structural_interaction_variant	GPATCH1
structural_interaction_variant	GPATCH1
structural_interaction_variant	GPATCH1
structural_interaction_variant	GPATCH1
structural_interaction_variant	WDR88
structural_interaction_variant	WDR88
structural_interaction_variant	WDR88
structural_interaction_variant	WDR88
structural_interaction_variant	LRP3
structural_interaction_variant	LRP3
structural_interaction_variant	SLC7A10
structural_interaction_variant	SLC7A10
structural_interaction_variant	PEPD
structural_interaction_variant	CHST8
structural_interaction_variant	KIAA0355
structural_interaction_variant	KIAA0355
structural_interaction_variant	KIAA0355
structural_interaction_variant	KIAA0355
stop_gained	KIAA0355
structural_interaction_variant	GPI
structural_interaction_variant	GPI
structural_interaction_variant	SCGB2B2
structural_interaction_variant	ZNF302
structural_interaction_variant	ZNF599
structural_interaction_variant	ZNF599
structural_interaction_variant	ZNF30
structural_interaction_variant	ZNF30
structural_interaction_variant	ZNF30
frameshift_variant	ZNF30
structural_interaction_variant	ZNF30
structural_interaction_variant	ZNF30

structural_interaction_variant	GRAMD1A
structural_interaction_variant	GRAMD1A
missense_variant&splice_region_variant	GRAMD1A
structural_interaction_variant	HPN
structural_interaction_variant	HPN
structural_interaction_variant	HPN
structural_interaction_variant	LGI4
structural_interaction_variant	FXYD7
structural_interaction_variant	FXYD5
structural_interaction_variant	FXYD5
structural_interaction_variant	FAM187B
structural_interaction_variant	FAM187B
stop_gained	FAM187B
structural_interaction_variant	FAM187B
structural_interaction_variant	LSR
structural_interaction_variant	USF2
structural_interaction_variant	CD22
structural_interaction_variant	KRTDAP
splice_acceptor_variant&intron_variant	DMKN
stop_gained	DMKN
structural_interaction_variant	DMKN
structural_interaction_variant	SBSN
structural_interaction_variant	GAPDHS
structural_interaction_variant	GAPDHS
structural_interaction_variant	TMEM147
structural_interaction_variant	ATP4A
structural_interaction_variant	ATP4A
structural_interaction_variant	ATP4A
structural_interaction_variant	ATP4A
structural_interaction_variant	HAUS5
structural_interaction_variant	HAUS5
structural_interaction_variant	RBM42
structural_interaction_variant	RBM42
structural_interaction_variant	ETV2
stop_gained	UPK1A
structural_interaction_variant	UPK1A
structural_interaction_variant	UPK1A
frameshift_variant	UPK1A
structural_interaction_variant	UPK1A
structural_interaction_variant	KMT2B
stop_gained	IGFLR1
frameshift_variant	AC002398.9
structural_interaction_variant	AC002398.9
structural_interaction_variant	C19orf55
splice_donor_variant&intron_variant	C19orf55
conservative_inframe_deletion	C19orf55
structural_interaction_variant	ARHGAP33
structural_interaction_variant	ARHGAP33

structural_interaction_variant	ARHGAP33
structural_interaction_variant	ARHGAP33
stop_gained	PRODH2
structural_interaction_variant	NPHS1
structural_interaction_variant	KIRREL2
structural_interaction_variant	KIRREL2
splice_donor_variant&intron_variant	KIRREL2
frameshift_variant	KIRREL2
structural_interaction_variant	APLP1
structural_interaction_variant	APLP1
structural_interaction_variant	APLP1
structural_interaction_variant	NFKBID
stop_gained	NFKBID
start_lost	HCST
structural_interaction_variant	HCST
missense_variant&splice_region_variant	TYROBP
missense_variant&splice_region_variant	TYROBP
structural_interaction_variant	TYROBP
structural_interaction_variant	TYROBP
structural_interaction_variant	LRFN3
stop_gained&disruptive_inframe_deletion	WDR62
structural_interaction_variant	CAPNS1
structural_interaction_variant	CAPNS1
structural_interaction_variant	COX7A1
structural_interaction_variant	COX7A1
structural_interaction_variant	ZNF565
frameshift_variant	ZNF565
structural_interaction_variant	ZNF565
structural_interaction_variant	ZNF146
structural_interaction_variant	ZFP14
structural_interaction_variant	ZFP14
structural_interaction_variant	ZFP14
structural_interaction_variant	ZNF529
splice_acceptor_variant&intron_variant	ZNF382
structural_interaction_variant	ZNF382
structural_interaction_variant	ZNF567
frameshift_variant&stop_gained	ZNF567
structural_interaction_variant	ZNF567
structural_interaction_variant	ZNF850
structural_interaction_variant	ZNF790
structural_interaction_variant	ZNF790
structural_interaction_variant	ZNF790
structural_interaction_variant	ZNF790
structural_interaction_variant	ZNF790
structural_interaction_variant	ZNF345
structural_interaction_variant	ZNF345
structural_interaction_variant	ZNF345
structural_interaction_variant	ZNF345

structural_interaction_variant	ZNF829
structural_interaction_variant	ZNF829
structural_interaction_variant	ZNF829
structural_interaction_variant	ZNF829
stop_gained	ZNF568
structural_interaction_variant	ZNF568
structural_interaction_variant	ZNF568
structural_interaction_variant	ZNF568
stop_gained	ZNF568
structural_interaction_variant	ZNF568
structural_interaction_variant	ZNF568
structural_interaction_variant	ZNF568
structural_interaction_variant	ZNF420
structural_interaction_variant	ZNF585A
structural_interaction_variant	ZNF585A
structural_interaction_variant	ZNF383
structural_interaction_variant	ZNF383
stop_gained	HKR1
structural_interaction_variant	HKR1
structural_interaction_variant	HKR1
structural_interaction_variant	HKR1
structural_interaction_variant	HKR1
structural_interaction_variant	ZNF527
stop_gained	ZNF570
structural_interaction_variant	ZNF570
structural_interaction_variant	ZNF793
structural_interaction_variant	ZNF793
structural_interaction_variant	ZNF571
structural_interaction_variant	ZNF571
structural_interaction_variant	ZNF571
structural_interaction_variant	ZNF571
stop_gained	ZNF540
structural_interaction_variant	ZNF540
disruptive_inframe_deletion	ZNF540
stop_gained	ZNF540
structural_interaction_variant	ZNF781
structural_interaction_variant	ZNF781
structural_interaction_variant	ZNF607
structural_interaction_variant	ZNF607
structural_interaction_variant	ZNF607
structural_interaction_variant	ZNF573
structural_interaction_variant	ZNF573
frameshift_variant	ZNF573
structural_interaction_variant	ZNF573
stop_gained	ZNF573
structural_interaction_variant	ZNF573
stop_gained	WDR87
structural_interaction_variant	WDR87

structural_interaction_variant	WDR87
frameshift_variant	WDR87
structural_interaction_variant	WDR87
structural_interaction_variant	WDR87
structural_interaction_variant	WDR87
structural_interaction_variant	WDR87
frameshift_variant	WDR87
structural_interaction_variant	WDR87
structural_interaction_variant	WDR87
structural_interaction_variant	WDR87
structural_interaction_variant	SIPA1L3
structural_interaction_variant	YIF1B
splice_acceptor_variant&intron_variant	YIF1B
structural_interaction_variant	KCNK6
stop_gained	KCNK6
structural_interaction_variant	KCNK6
structural_interaction_variant	CATSPERG
frameshift_variant	CATSPERG
structural_interaction_variant	CATSPERG
stop_gained&splice_region_variant	PSMD8
structural_interaction_variant	GGN
structural_interaction_variant	RASGRP4
stop_gained	RASGRP4
structural_interaction_variant	RASGRP4
structural_interaction_variant	RYR1
structural_interaction_variant	RYR1
structural_interaction_variant	RYR1
structural_interaction_variant	EIF3K
structural_interaction_variant	EIF3K
structural_interaction_variant	ACTN4
frameshift_variant	ACTN4
structural_interaction_variant	CAPN12
structural_interaction_variant	ECH1
structural_interaction_variant	ECH1
structural_interaction_variant	ECH1
missense_variant&splice_region_variant	HNRNPL
structural_interaction_variant	RINL
structural_interaction_variant	SIRT2
structural_interaction_variant	SIRT2
structural_interaction_variant	NFKBIB
structural_interaction_variant	SARS2
frameshift_variant	SARS2
structural_interaction_variant	PAPL
structural_interaction_variant	PAPL
structural_interaction_variant	PAPL
structural_interaction_variant	NCCRP1
frameshift_variant	NCCRP1
structural_interaction_variant	IFNL2

structural_interaction_variant	LRFN1
structural_interaction_variant	LRFN1
structural_interaction_variant	GMFG
structural_interaction_variant	GMFG
stop_gained&splice_region_variant	GMFG
structural_interaction_variant	SAMD4B
structural_interaction_variant	PAF1
structural_interaction_variant	PAF1
structural_interaction_variant	PAF1
structural_interaction_variant	PAF1
structural_interaction_variant	ZFP36
structural_interaction_variant	ZFP36
structural_interaction_variant	ZFP36
structural_interaction_variant	PLEKHG2
structural_interaction_variant	PLEKHG2
structural_interaction_variant	PLEKHG2
structural_interaction_variant	RPS16
structural_interaction_variant	RPS16
structural_interaction_variant	SUPT5H
structural_interaction_variant	SUPT5H
structural_interaction_variant	SUPT5H
structural_interaction_variant	TIMM50
structural_interaction_variant	DLL3
structural_interaction_variant	EID2B
structural_interaction_variant	DYRK1B
structural_interaction_variant	FBL
structural_interaction_variant	FCGBP
structural_interaction_variant	FCGBP
structural_interaction_variant	FCGBP
structural_interaction_variant	FCGBP
structural_interaction_variant	FCGBP
structural_interaction_variant	FCGBP
structural_interaction_variant	FCGBP
frameshift_variant	FCGBP
structural_interaction_variant	PSMC4
structural_interaction_variant	PSMC4
structural_interaction_variant	PSMC4
stop_gained	ZNF546
structural_interaction_variant	ZNF546
structural_interaction_variant	ZNF546
frameshift_variant	ZNF546
structural_interaction_variant	ZNF546
structural_interaction_variant	ZNF780B
structural_interaction_variant	TTC9B
structural_interaction_variant	C19orf47
structural_interaction_variant	C19orf47
structural_interaction_variant	C19orf47
structural_interaction_variant	PLD3

stop_gained	PRX
structural_interaction_variant	PRX
structural_interaction_variant	PRX
structural_interaction_variant	SERTAD1
structural_interaction_variant	SERTAD3
structural_interaction_variant	SERTAD3
structural_interaction_variant	SHKBP1
structural_interaction_variant	SHKBP1
structural_interaction_variant	SHKBP1
splice_acceptor_variant&intron_variant	SHKBP1
structural_interaction_variant	SHKBP1
structural_interaction_variant	SHKBP1
structural_interaction_variant	SHKBP1
structural_interaction_variant	SHKBP1
structural_interaction_variant	SHKBP1
structural_interaction_variant	SHKBP1
structural_interaction_variant	LTBP4
stop_gained	NUMBL
structural_interaction_variant	ADCK4
structural_interaction_variant	SNRPA
structural_interaction_variant	RAB4B-EGLN2
structural_interaction_variant	RAB4B-EGLN2
frameshift_variant	EGLN2
structural_interaction_variant	EGLN2
structural_interaction_variant	CYP2A6
structural_interaction_variant	CYP2A7
structural_interaction_variant	CYP2A7
structural_interaction_variant	CYP2B6
structural_interaction_variant	CYP2B6
structural_interaction_variant	CYP2B6
structural_interaction_variant	CYP2B6
structural_interaction_variant	CYP2F1
structural_interaction_variant	CYP2S1
structural_interaction_variant	AXL
structural_interaction_variant	AXL
structural_interaction_variant	AXL
structural_interaction_variant	CCDC97
structural_interaction_variant	TMEM91
structural_interaction_variant	BCKDHA
structural_interaction_variant	BCKDHA
frameshift_variant	B3GNT8
structural_interaction_variant	B3GNT8
structural_interaction_variant	B3GNT8
structural_interaction_variant	ATP5SL
missense_variant&splice_region_variant	ATP5SL
structural_interaction_variant	CEACAM21
structural_interaction_variant	CEACAM4
structural_interaction_variant	CEACAM5

structural_interaction_variant	CEACAM6
structural_interaction_variant	CEACAM6
structural_interaction_variant	CEACAM6
structural_interaction_variant	LYPD4
structural_interaction_variant	DMRTC2
structural_interaction_variant	ARHGEF1
structural_interaction_variant	ARHGEF1
structural_interaction_variant	RABAC1
structural_interaction_variant	GRIK5
structural_interaction_variant	GRIK5
structural_interaction_variant	ZNF574
structural_interaction_variant	ZNF574
stop_gained	ZNF574
structural_interaction_variant	POU2F2
structural_interaction_variant	POU2F2
structural_interaction_variant	DEDD2
structural_interaction_variant	DEDD2
structural_interaction_variant	ZNF526
structural_interaction_variant	ZNF526
structural_interaction_variant	ZNF526
structural_interaction_variant	ZNF526
structural_interaction_variant	ZNF526
structural_interaction_variant	CIC
structural_interaction_variant	PAFAH1B3
structural_interaction_variant	PAFAH1B3
structural_interaction_variant	PRR19
structural_interaction_variant	PRR19
structural_interaction_variant	PRR19
structural_interaction_variant	TMEM145
structural_interaction_variant	TMEM145
structural_interaction_variant	TMEM145
structural_interaction_variant	TMEM145
structural_interaction_variant	TMEM145
structural_interaction_variant	TMEM145
structural_interaction_variant	MEGF8
structural_interaction_variant	LIPE
structural_interaction_variant	LIPE
structural_interaction_variant	LIPE
stop_gained	CEACAM8
structural_interaction_variant	CD177
structural_interaction_variant	CD177
structural_interaction_variant	CD177
structural_interaction_variant	CD177
structural_interaction_variant	CD177
structural_interaction_variant	CD177
structural_interaction_variant	CD177
structural_interaction_variant	CD177
structural_interaction_variant	CD177

structural_interaction_variant	TEX101
structural_interaction_variant	TEX101
structural_interaction_variant	LYPD3
structural_interaction_variant	LYPD3
stop_gained	LYPD3
structural_interaction_variant	LYPD3
structural_interaction_variant	ETHE1
structural_interaction_variant	ZNF575
structural_interaction_variant	PINLYP
structural_interaction_variant	PINLYP
structural_interaction_variant	IRGQ
structural_interaction_variant	IRGQ
structural_interaction_variant	IRGQ
structural_interaction_variant	IRGQ
structural_interaction_variant	IRGQ
structural_interaction_variant	ZNF428
structural_interaction_variant	ZNF428
structural_interaction_variant	ZNF428
structural_interaction_variant	CADM4
structural_interaction_variant	CADM4
structural_interaction_variant	PLAUR
splice_donor_variant&intron_variant	PLAUR
structural_interaction_variant	IRGC
structural_interaction_variant	SMG9
structural_interaction_variant	SMG9
structural_interaction_variant	SMG9
structural_interaction_variant	ZNF283
structural_interaction_variant	ZNF283
stop_gained	ZNF283
structural_interaction_variant	ZNF283
structural_interaction_variant	ZNF404
structural_interaction_variant	ZNF404
structural_interaction_variant	ZNF404
structural_interaction_variant	ZNF45
structural_interaction_variant	ZNF45
structural_interaction_variant	ZNF45
structural_interaction_variant	ZNF45
structural_interaction_variant	ZNF45
structural_interaction_variant	ZNF45
structural_interaction_variant	ZNF221
structural_interaction_variant	ZNF221
structural_interaction_variant	ZNF221
frameshift_variant	ZNF230
structural_interaction_variant	ZNF230
disruptive_inframe_deletion	ZNF230
structural_interaction_variant	ZNF222
stop_gained	ZNF222
stop_gained	ZNF222

structural_interaction_variant	ZNF222
structural_interaction_variant	ZNF222
stop_gained	ZNF222
structural_interaction_variant	ZNF223
structural_interaction_variant	ZNF223
structural_interaction_variant	ZNF223
structural_interaction_variant	ZNF284
structural_interaction_variant	ZNF284
structural_interaction_variant	ZNF284
structural_interaction_variant	ZNF284
stop_gained	ZNF224
structural_interaction_variant	ZNF224
conservative_inframe_deletion	ZNF224
structural_interaction_variant	ZNF224
structural_interaction_variant	ZNF225
stop_gained	ZNF225
structural_interaction_variant	ZNF225
structural_interaction_variant	ZNF225
structural_interaction_variant	ZNF225
stop_gained	ZNF225
frameshift_variant	ZNF225
structural_interaction_variant	ZNF225
stop_gained	ZNF225
structural_interaction_variant	ZNF234
structural_interaction_variant	ZNF234
frameshift_variant	ZNF226
structural_interaction_variant	ZNF226
structural_interaction_variant	ZNF226
frameshift_variant	ZNF226
structural_interaction_variant	ZNF226
structural_interaction_variant	ZNF226
frameshift_variant	ZNF226
structural_interaction_variant	ZNF227
structural_interaction_variant	ZNF227
structural_interaction_variant	ZNF227
stop_gained	ZNF227
stop_gained	ZNF227
structural_interaction_variant	ZNF227
frameshift_variant	ZNF227
missense_variant&splice_region_variant	ZNF233
structural_interaction_variant	ZNF233
structural_interaction_variant	ZNF233
structural_interaction_variant	ZNF233
structural_interaction_variant	ZNF235
structural_interaction_variant	ZNF235
structural_interaction_variant	ZNF235
structural_interaction_variant	ZNF112
structural_interaction_variant	ZNF112

structural_interaction_variant	ZNF112
structural_interaction_variant	ZNF112
structural_interaction_variant	ZNF112
structural_interaction_variant	ZNF285
structural_interaction_variant	ZNF285
structural_interaction_variant	ZNF285
splice_acceptor_variant&intron_variant	ZNF285
structural_interaction_variant	ZNF229
structural_interaction_variant	ZNF229
stop_gained	ZNF229
structural_interaction_variant	ZNF229
structural_interaction_variant	ZNF229
structural_interaction_variant	ZNF229
structural_interaction_variant	ZNF180
structural_interaction_variant	ZNF180
structural_interaction_variant	ZNF180
structural_interaction_variant	IGSF23
structural_interaction_variant	PVR
structural_interaction_variant	CEACAM19
structural_interaction_variant	CEACAM19
structural_interaction_variant	CEACAM19
structural_interaction_variant	CEACAM19
structural_interaction_variant	CEACAM19
structural_interaction_variant	CEACAM16
structural_interaction_variant	CEACAM16
structural_interaction_variant	CEACAM16
structural_interaction_variant	BCL3
structural_interaction_variant	CBLC
structural_interaction_variant	CBLC
structural_interaction_variant	CBLC
structural_interaction_variant	BCAM
disruptive_inframe_deletion	BCAM
frameshift_variant&splice_region_variant	BCAM
splice_donor_variant&intron_variant	BCAM
frameshift_variant	APOC1
structural_interaction_variant	CLPTM1
structural_interaction_variant	CLPTM1
structural_interaction_variant	CLPTM1
structural_interaction_variant	RELB
structural_interaction_variant	RELB
structural_interaction_variant	RELB
structural_interaction_variant	RELB
structural_interaction_variant	RELB
structural_interaction_variant	ZNF296
structural_interaction_variant	ZNF296
structural_interaction_variant	EXOC3L2
structural_interaction_variant	EXOC3L2
structural_interaction_variant	EXOC3L2

structural_interaction_variant	MARK4
structural_interaction_variant	CKM
structural_interaction_variant	CKM
frameshift_variant	CKM
structural_interaction_variant	CKM
structural_interaction_variant	CKM
frameshift_variant	KLC3
structural_interaction_variant	ERCC2
stop_gained	ERCC2
stop_gained	ERCC2
structural_interaction_variant	PPP1R13L
structural_interaction_variant	CD3EAP
structural_interaction_variant	ERCC1
structural_interaction_variant	ERCC1
structural_interaction_variant	ERCC1
structural_interaction_variant	ERCC1
structural_interaction_variant	FOSB
structural_interaction_variant	FOSB
structural_interaction_variant	RTN2
frameshift_variant	RTN2
structural_interaction_variant	RTN2
structural_interaction_variant	RTN2
structural_interaction_variant	RTN2
structural_interaction_variant	VASP
structural_interaction_variant	GPR4
structural_interaction_variant	GPR4
structural_interaction_variant	GPR4
structural_interaction_variant	EML2
structural_interaction_variant	EML2
structural_interaction_variant	EML2
structural_interaction_variant	EML2
structural_interaction_variant	GIPR
structural_interaction_variant	GIPR
structural_interaction_variant	GIPR
missense_variant&splice_region_variant	GIPR
structural_interaction_variant	QPCTL
structural_interaction_variant	DMPK
structural_interaction_variant	DMPK
splice_donor_variant&intron_variant	DMWD
structural_interaction_variant	RSPH6A
structural_interaction_variant	RSPH6A
structural_interaction_variant	SYMPK
structural_interaction_variant	SYMPK
structural_interaction_variant	FOXA3
structural_interaction_variant	FOXA3
structural_interaction_variant	NOVA2
structural_interaction_variant	CCDC61
structural_interaction_variant	CCDC61

missense_variant&splice_region_variant	PGLYRP1
frameshift_variant	IGFL4
stop_gained	HIF3A
structural_interaction_variant	PPP5C
stop_gained	CCDC8
structural_interaction_variant	CCDC8
frameshift_variant	PNMAL1
structural_interaction_variant	PNMAL1
structural_interaction_variant	PNMAL1
stop_gained	PNMAL2
stop_gained	PNMAL2
structural_interaction_variant	PNMAL2
structural_interaction_variant	AC011484.1
structural_interaction_variant	PNMAL2
structural_interaction_variant	PRKD2
structural_interaction_variant	PRKD2
structural_interaction_variant	PRKD2
structural_interaction_variant	PRKD2
structural_interaction_variant	PRKD2
structural_interaction_variant	STRN4
structural_interaction_variant	FKRP
structural_interaction_variant	SLC1A5
structural_interaction_variant	SLC1A5
structural_interaction_variant	SLC1A5
structural_interaction_variant	AP2S1
structural_interaction_variant	ARHGAP35
structural_interaction_variant	ARHGAP35
structural_interaction_variant	ARHGAP35
structural_interaction_variant	ARHGAP35
stop_gained&splice_region_variant	NPAS1
structural_interaction_variant	ZC3H4
structural_interaction_variant	ZC3H4
structural_interaction_variant	ZC3H4
missense_variant&splice_region_variant	ZC3H4
structural_interaction_variant	ZC3H4
structural_interaction_variant	ZC3H4
structural_interaction_variant	SAE1
structural_interaction_variant	CCDC9
structural_interaction_variant	C5AR1
structural_interaction_variant	C5AR1
structural_interaction_variant	C5AR1
structural_interaction_variant	DHX34
structural_interaction_variant	DHX34
structural_interaction_variant	MEIS3
structural_interaction_variant	MEIS3
structural_interaction_variant	MEIS3
structural_interaction_variant	MEIS3
missense_variant&splice_region_variant	SLC8A2

structural_interaction_variant	SLC8A2
stop_gained	KPTN
structural_interaction_variant	KPTN
structural_interaction_variant	NAPA
structural_interaction_variant	ZNF541
structural_interaction_variant	ZNF541
structural_interaction_variant	ZNF541
structural_interaction_variant	ZNF541
structural_interaction_variant	ZNF541
structural_interaction_variant	GLTSCR1
structural_interaction_variant	EHD2
structural_interaction_variant	GLTSCR2
structural_interaction_variant	GLTSCR2
frameshift_variant	SEPW1
structural_interaction_variant	SEPW1
frameshift_variant	TPRX1
structural_interaction_variant	SULT2A1
structural_interaction_variant	BSPH1
structural_interaction_variant	ELSPBP1
structural_interaction_variant	ELSPBP1
structural_interaction_variant	CABP5
frameshift_variant&splice_donor_variant&splice_reg	CABP5
missense_variant&splice_region_variant	PLA2G4C
missense_variant&splice_region_variant	LIG1
structural_interaction_variant	CARD8
structural_interaction_variant	CARD8
structural_interaction_variant	ZNF114
structural_interaction_variant	ZNF114
frameshift_variant	ZNF114
structural_interaction_variant	ZNF114
structural_interaction_variant	ZNF114
conservative_inframe_deletion	EMP3
structural_interaction_variant	EMP3
structural_interaction_variant	TMEM143
structural_interaction_variant	TMEM143
splice_acceptor_variant&disruptive_inframe_deletio	SYNGR4
structural_interaction_variant	KDELR1
structural_interaction_variant	GRIN2D
structural_interaction_variant	GRWD1
structural_interaction_variant	KCNJ14
structural_interaction_variant	CYTH2
structural_interaction_variant	CYTH2
structural_interaction_variant	LMTK3
structural_interaction_variant	LMTK3
structural_interaction_variant	LMTK3
structural_interaction_variant	FAM83E
structural_interaction_variant	RPL18
structural_interaction_variant	RPL18

structural_interaction_variant	SPHK2
structural_interaction_variant	SPHK2
structural_interaction_variant	CA11
structural_interaction_variant	CA11
structural_interaction_variant	NTN5
structural_interaction_variant	RASIP1
structural_interaction_variant	RASIP1
structural_interaction_variant	BCAT2
structural_interaction_variant	BCAT2
structural_interaction_variant	HSD17B14
missense_variant&splice_region_variant	HSD17B14
structural_interaction_variant	PLEKHA4
structural_interaction_variant	PPP1R15A
structural_interaction_variant	PPP1R15A
structural_interaction_variant	PPP1R15A
structural_interaction_variant	PPP1R15A
structural_interaction_variant	PPP1R15A
structural_interaction_variant	PPP1R15A
stop_gained	PPP1R15A
structural_interaction_variant	PPP1R15A
structural_interaction_variant	PPP1R15A
structural_interaction_variant	PPP1R15A
structural_interaction_variant	TULP2
structural_interaction_variant	TULP2
splice_acceptor_variant&intron_variant	TULP2
structural_interaction_variant	TULP2
structural_interaction_variant	NUCB1
structural_interaction_variant	NUCB1
splice_donor_variant&intron_variant	NUCB1
frameshift_variant	DHDH
structural_interaction_variant	FTL
structural_interaction_variant	GYS1
structural_interaction_variant	GYS1
structural_interaction_variant	GYS1
structural_interaction_variant	KCNA7
structural_interaction_variant	KCNA7
structural_interaction_variant	LIN7B
structural_interaction_variant	LIN7B
missense_variant&splice_region_variant	PPFIA3
structural_interaction_variant	PPFIA3
structural_interaction_variant	HRC
structural_interaction_variant	HRC
structural_interaction_variant	HRC
structural_interaction_variant	HRC
structural_interaction_variant	HRC
structural_interaction_variant	HRC
structural_interaction_variant	HRC
structural_interaction_variant	TRPM4

structural_interaction_variant	TRPM4
missense_variant&splice_region_variant	TRPM4
structural_interaction_variant	TRPM4
structural_interaction_variant	TRPM4
structural_interaction_variant	SLC6A16
structural_interaction_variant	SLC6A16
structural_interaction_variant	SLC6A16
structural_interaction_variant	SLC6A16
structural_interaction_variant	CD37
structural_interaction_variant	CD37
structural_interaction_variant	TEAD2
splice_acceptor_variant&intron_variant	TEAD2
stop_gained	DKKL1
start_lost	CCDC155
stop_gained&conservative_inframe_insertion	CCDC155
structural_interaction_variant	CCDC155
structural_interaction_variant	CCDC155
structural_interaction_variant	CCDC155
structural_interaction_variant	SLC17A7
structural_interaction_variant	SLC17A7
structural_interaction_variant	PIH1D1
structural_interaction_variant	PIH1D1
structural_interaction_variant	PIH1D1
structural_interaction_variant	ALDH16A1
structural_interaction_variant	ALDH16A1
structural_interaction_variant	FLT3LG
structural_interaction_variant	FLT3LG
splice_acceptor_variant&intron_variant	RPL13A
structural_interaction_variant	RPL13A
structural_interaction_variant	RPS11
structural_interaction_variant	RPS11
structural_interaction_variant	FCGRT
structural_interaction_variant	FCGRT
structural_interaction_variant	NOSIP
structural_interaction_variant	PRRG2
structural_interaction_variant	PRR12
structural_interaction_variant	RRAS
structural_interaction_variant	SCAF1
structural_interaction_variant	SCAF1
structural_interaction_variant	SCAF1
structural_interaction_variant	BCL2L12
frameshift_variant	BCL2L12
structural_interaction_variant	BCL2L12
structural_interaction_variant	CPT1C
structural_interaction_variant	CPT1C
structural_interaction_variant	CPT1C
structural_interaction_variant	CPT1C
structural_interaction_variant	TSKS

structural_interaction_variant	TSKS
structural_interaction_variant	TSKS
structural_interaction_variant	TSKS
structural_interaction_variant	TSKS
missense_variant&splice_region_variant	TSKS
structural_interaction_variant	AP2A1
splice_acceptor_variant&intron_variant	FUZ
structural_interaction_variant	PTOV1
structural_interaction_variant	PNKP
structural_interaction_variant	TBC1D17
structural_interaction_variant	TBC1D17
structural_interaction_variant	IL4I1
splice_acceptor_variant&intron_variant	IL4I1
structural_interaction_variant	IL4I1
missense_variant&splice_region_variant	IL4I1
structural_interaction_variant	NUP62
structural_interaction_variant	NUP62
structural_interaction_variant	NUP62
structural_interaction_variant	NUP62
structural_interaction_variant	NUP62
stop_gained	ATF5
structural_interaction_variant	SIGLEC11
stop_gained	SIGLEC11
structural_interaction_variant	SIGLEC11
frameshift_variant	VRK3
splice_acceptor_variant&intron_variant	VRK3
structural_interaction_variant	ZNF473
structural_interaction_variant	ZNF473
structural_interaction_variant	ZNF473
structural_interaction_variant	ZNF473
frameshift_variant	IZUMO2
structural_interaction_variant	IZUMO2
structural_interaction_variant	IZUMO2
frameshift_variant	IZUMO2
structural_interaction_variant	IZUMO2
structural_interaction_variant	IZUMO2
structural_interaction_variant	MYH14
structural_interaction_variant	MYH14
structural_interaction_variant	MYH14
structural_interaction_variant	KCNC3
structural_interaction_variant	NAPSA
structural_interaction_variant	NAPSA
structural_interaction_variant	NAPSA
structural_interaction_variant	NR1H2
structural_interaction_variant	NR1H2
structural_interaction_variant	POLD1
structural_interaction_variant	POLD1
structural_interaction_variant	MYBPC2

frameshift_variant	MYBPC2
structural_interaction_variant	MYBPC2
structural_interaction_variant	ASPDH
structural_interaction_variant	SYT3
structural_interaction_variant	SYT3
structural_interaction_variant	C19orf81
structural_interaction_variant	SHANK1
structural_interaction_variant	SHANK1
structural_interaction_variant	CLEC11A
structural_interaction_variant	GPR32
structural_interaction_variant	GPR32
structural_interaction_variant	GPR32
structural_interaction_variant	GPR32
structural_interaction_variant	ACPT
frameshift_variant&stop_gained	ACPT
frameshift_variant	C19orf48
structural_interaction_variant	KLK15
start_lost	KLK3
structural_interaction_variant	KLK3
frameshift_variant	KLK3
structural_interaction_variant	KLK2
structural_interaction_variant	KLK5
structural_interaction_variant	KLK5
structural_interaction_variant	KLK7
splice_acceptor_variant&intron_variant	KLK9
structural_interaction_variant	KLK9
splice_acceptor_variant&intron_variant	KLK9
structural_interaction_variant	KLK10
stop_gained	KLK11
structural_interaction_variant	KLK11
structural_interaction_variant	KLK12
structural_interaction_variant	KLK13
structural_interaction_variant	KLK13
structural_interaction_variant	KLK13
structural_interaction_variant	SIGLEC9
frameshift_variant	SIGLEC9
structural_interaction_variant	SIGLEC9
splice_acceptor_variant&intron_variant	SIGLEC9
structural_interaction_variant	SIGLEC7
structural_interaction_variant	SIGLECL1
structural_interaction_variant	SIGLECL1
structural_interaction_variant	IGLON5
structural_interaction_variant	IGLON5
structural_interaction_variant	VSIG10L
protein_protein_contact	ETFB
stop_gained	ETFB
structural_interaction_variant	ETFB
structural_interaction_variant	CLDND2

structural_interaction_variant	CLDND2
missense_variant&splice_region_variant	NKG7
structural_interaction_variant	NKG7
structural_interaction_variant	LIM2
structural_interaction_variant	SIGLEC10
structural_interaction_variant	SIGLEC10
structural_interaction_variant	SIGLEC8
frameshift_variant	SIGLEC8
structural_interaction_variant	SIGLEC8
structural_interaction_variant	SIGLEC8
stop_gained	CEACAM18
structural_interaction_variant	SIGLEC12
structural_interaction_variant	SIGLEC12
structural_interaction_variant	SIGLEC12
structural_interaction_variant	ZNF175
structural_interaction_variant	ZNF175
structural_interaction_variant	ZNF175
splice_donor_variant&intron_variant	SIGLEC5
structural_interaction_variant	SIGLEC5
structural_interaction_variant	SIGLEC5
structural_interaction_variant	HAS1
structural_interaction_variant	HAS1
structural_interaction_variant	FPR1
structural_interaction_variant	FPR1
structural_interaction_variant	FPR2
structural_interaction_variant	ZNF649
structural_interaction_variant	ZNF649
structural_interaction_variant	ZNF649
stop_gained	ZNF649
structural_interaction_variant	ZNF613
structural_interaction_variant	ZNF613
structural_interaction_variant	ZNF613
structural_interaction_variant	ZNF350
structural_interaction_variant	ZNF350
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structural_interaction_variant	ZNF615
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structural_interaction_variant	ZNF615
structural_interaction_variant	ZNF615
frameshift_variant	ZNF614
structural_interaction_variant	ZNF614
frameshift_variant	ZNF614
structural_interaction_variant	ZNF614
frameshift_variant	ZNF614
structural_interaction_variant	ZNF614
frameshift_variant	ZNF432
structural_interaction_variant	ZNF841

structural_interaction_variant	ZNF841
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structural_interaction_variant	ZNF616
structural_interaction_variant	ZNF616
structural_interaction_variant	ZNF616
stop_gained	ZNF616
structural_interaction_variant	ZNF616
stop_gained	ZNF616
structural_interaction_variant	ZNF836
structural_interaction_variant	ZNF836
structural_interaction_variant	ZNF836
structural_interaction_variant	ZNF836
frameshift_variant	ZNF836
structural_interaction_variant	ZNF836
structural_interaction_variant	ZNF836
structural_interaction_variant	PPP2R1A
structural_interaction_variant	ZNF766
structural_interaction_variant	ZNF610
structural_interaction_variant	ZNF610
structural_interaction_variant	ZNF880
structural_interaction_variant	ZNF528
structural_interaction_variant	ZNF528
structural_interaction_variant	ZNF528
structural_interaction_variant	ZNF528
stop_gained	ZNF528
frameshift_variant	ZNF534
structural_interaction_variant	ZNF534
structural_interaction_variant	ZNF534
structural_interaction_variant	ZNF808
structural_interaction_variant	ZNF701
structural_interaction_variant	ZNF701
structural_interaction_variant	ZNF701
structural_interaction_variant	ZNF701
structural_interaction_variant	ZNF701
disruptive_inframe_deletion	ZNF701
structural_interaction_variant	ZNF83
structural_interaction_variant	ZNF83
structural_interaction_variant	ZNF611
structural_interaction_variant	ZNF600
structural_interaction_variant	ZNF468
stop_gained	ZNF468
structural_interaction_variant	ZNF160
structural_interaction_variant	ZNF160
structural_interaction_variant	ZNF160
structural_interaction_variant	ZNF160
structural_interaction_variant	ZNF160

structural_interaction_variant	ZNF415
structural_interaction_variant	ZNF415
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structural_interaction_variant	ZNF415
structural_interaction_variant	ZNF415
structural_interaction_variant	ZNF415
frameshift_variant	ZNF415
stop_gained	ZNF347
structural_interaction_variant	ZNF347
structural_interaction_variant	ZNF347
stop_gained	ZNF347
stop_gained	ZNF347
structural_interaction_variant	ZNF665
structural_interaction_variant	ZNF665
structural_interaction_variant	ZNF677
structural_interaction_variant	BIRC8
structural_interaction_variant	ZNF765
structural_interaction_variant	ZNF331
structural_interaction_variant	ZNF331
structural_interaction_variant	ZNF331
structural_interaction_variant	ZNF331
structural_interaction_variant	DPRX
structural_interaction_variant	NLRP12
stop_gained	NLRP12
structural_interaction_variant	MYADM
structural_interaction_variant	MYADM
structural_interaction_variant	MYADM
structural_interaction_variant	CACNG8
structural_interaction_variant	VSTM1
splice_donor_variant&intron_variant	VSTM1
structural_interaction_variant	VSTM1
structural_interaction_variant	OSCAR
structural_interaction_variant	OSCAR
structural_interaction_variant	CNOT3
structural_interaction_variant	LENG1
stop_gained	TMC4
stop_gained	TMC4
structural_interaction_variant	RPS9
structural_interaction_variant	RPS9
structural_interaction_variant	LILRB3
frameshift_variant	LILRB5
structural_interaction_variant	LILRB5
structural_interaction_variant	LILRB5
structural_interaction_variant	LILRB5
structural_interaction_variant	LILRB5

structural_interaction_variant	LILRB2
frameshift_variant	LILRB2
structural_interaction_variant	LILRB2
structural_interaction_variant	LILRA5
structural_interaction_variant	LILRA5
structural_interaction_variant	LILRA4
structural_interaction_variant	LILRA4
structural_interaction_variant	LILRA4
structural_interaction_variant	LAIR1
structural_interaction_variant	LENG8
structural_interaction_variant	LENG8
structural_interaction_variant	LENG8
structural_interaction_variant	LENG8
structural_interaction_variant	LENG8
structural_interaction_variant	LAIR2
structural_interaction_variant	LAIR2
structural_interaction_variant	LILRA2
structural_interaction_variant	LILRB4
structural_interaction_variant	FCAR
structural_interaction_variant	FCAR
structural_interaction_variant	FCAR
structural_interaction_variant	NCR1
frameshift_variant	NLRP2
structural_interaction_variant	NLRP2
structural_interaction_variant	NLRP2
structural_interaction_variant	GP6
structural_interaction_variant	GP6
structural_interaction_variant	GP6
structural_interaction_variant	GP6
frameshift_variant	GP6
structural_interaction_variant	RDH13
structural_interaction_variant	RDH13
structural_interaction_variant	PPP1R12C
structural_interaction_variant	PPP1R12C
structural_interaction_variant	TNNI3
splice_donor_variant&intron_variant	SYT5
structural_interaction_variant	PTPRH
structural_interaction_variant	PTPRH
missense_variant&splice_region_variant	PTPRH
structural_interaction_variant	PTPRH
structural_interaction_variant	PTPRH
missense_variant&splice_region_variant	PTPRH
structural_interaction_variant	PTPRH
structural_interaction_variant	PPP6R1
structural_interaction_variant	PPP6R1
structural_interaction_variant	BRSK1
structural_interaction_variant	TMEM150B
structural_interaction_variant	TMEM190

structural_interaction_variant	TMEM190
frameshift_variant	TMEM190
structural_interaction_variant	SSC5D
structural_interaction_variant	SSC5D
structural_interaction_variant	SSC5D
structural_interaction_variant	SSC5D
structural_interaction_variant	SSC5D
structural_interaction_variant	SSC5D
frameshift_variant	SBK2
structural_interaction_variant	SBK2
structural_interaction_variant	SBK2
structural_interaction_variant	FIZ1
structural_interaction_variant	ZNF581
structural_interaction_variant	CCDC106
structural_interaction_variant	CCDC106
structural_interaction_variant	EPN1
stop_gained	EPN1
structural_interaction_variant	EPN1
structural_interaction_variant	EPN1
structural_interaction_variant	NLRP9
structural_interaction_variant	NLRP9
splice_acceptor_variant&intron_variant	NLRP9
structural_interaction_variant	NLRP9
structural_interaction_variant	NLRP9
structural_interaction_variant	NLRP9
structural_interaction_variant	NLRP9
structural_interaction_variant	NLRP9
structural_interaction_variant	NLRP9
stop_gained	NLRP9
structural_interaction_variant	NLRP11
structural_interaction_variant	NLRP11
structural_interaction_variant	NLRP11
structural_interaction_variant	NLRP11
structural_interaction_variant	NLRP11
structural_interaction_variant	NLRP11
structural_interaction_variant	NLRP4
splice_donor_variant&intron_variant	NLRP4
structural_interaction_variant	NLRP4
structural_interaction_variant	NLRP4
structural_interaction_variant	NLRP4
frameshift_variant	NLRP4
frameshift_variant	NLRP13
structural_interaction_variant	NLRP13
stop_gained	NLRP13
splice_acceptor_variant&intron_variant	NLRP13
structural_interaction_variant	NLRP8
structural_interaction_variant	NLRP8
structural_interaction_variant	NLRP8

stop_gained	NLRP8
structural_interaction_variant	NLRP8
structural_interaction_variant	NLRP8
structural_interaction_variant	NLRP8
structural_interaction_variant	NLRP8
structural_interaction_variant	NLRP5
structural_interaction_variant	NLRP5
structural_interaction_variant	NLRP5
structural_interaction_variant	NLRP5
structural_interaction_variant	NLRP5
missense_variant&splice_region_variant	NLRP5
structural_interaction_variant	NLRP5
structural_interaction_variant	GALP
structural_interaction_variant	ZSCAN5B
structural_interaction_variant	ZSCAN5B
structural_interaction_variant	ZSCAN5C
structural_interaction_variant	ZSCAN5C
frameshift_variant	ZSCAN5C
stop_gained	ZSCAN5C
structural_interaction_variant	ZSCAN5C
structural_interaction_variant	ZSCAN5C
structural_interaction_variant	ZSCAN5C
structural_interaction_variant	ZSCAN5A
stop_gained	ZSCAN5A
structural_interaction_variant	ZNF582
structural_interaction_variant	ZNF582
structural_interaction_variant	ZNF582
stop_gained	ZNF583
structural_interaction_variant	ZNF471
structural_interaction_variant	ZNF471
frameshift_variant	ZNF471
structural_interaction_variant	ZNF471
frameshift_variant	ZNF471
structural_interaction_variant	ZFP28
structural_interaction_variant	ZFP28
structural_interaction_variant	ZFP28
structural_interaction_variant	ZFP28
splice_acceptor_variant&intron_variant	ZNF470
structural_interaction_variant	ZNF470
stop_gained	ZNF470
structural_interaction_variant	ZNF470
structural_interaction_variant	ZNF470
structural_interaction_variant	ZNF470
structural_interaction_variant	ZNF470
structural_interaction_variant	ZNF71
structural_interaction_variant	ZNF71
structural_interaction_variant	ZNF71
structural_interaction_variant	ZNF71

stop_gained	ZNF71
structural_interaction_variant	ZNF71
stop_gained	ZNF835
frameshift_variant	ZNF835
structural_interaction_variant	ZNF835
structural_interaction_variant	ZNF835
structural_interaction_variant	ZNF835
structural_interaction_variant	ZIM2
structural_interaction_variant	PEG3
structural_interaction_variant	PEG3
structural_interaction_variant	PEG3
structural_interaction_variant	PEG3
structural_interaction_variant	PEG3
structural_interaction_variant	PEG3
structural_interaction_variant	USP29
structural_interaction_variant	USP29
structural_interaction_variant	ZIM3
structural_interaction_variant	DUXA
structural_interaction_variant	DUXA
structural_interaction_variant	ZNF264
structural_interaction_variant	ZNF264
structural_interaction_variant	ZNF264
structural_interaction_variant	ZNF805
stop_gained	ZNF805
frameshift_variant	ZNF543
structural_interaction_variant	ZNF543
structural_interaction_variant	ZNF543
structural_interaction_variant	ZNF543
structural_interaction_variant	ZNF304
structural_interaction_variant	ZNF304
structural_interaction_variant	ZNF304
stop_gained	ZNF547
structural_interaction_variant	ZNF547
structural_interaction_variant	AC003002.6
stop_gained	ZNF548
structural_interaction_variant	ZNF548
structural_interaction_variant	ZNF548
structural_interaction_variant	ZNF548
missense_variant&splice_region_variant	ZNF17
structural_interaction_variant	ZNF17
structural_interaction_variant	ZNF749
structural_interaction_variant	ZNF749
structural_interaction_variant	ZNF749
structural_interaction_variant	ZNF749
structural_interaction_variant	ZNF749
structural_interaction_variant	VN1R1
structural_interaction_variant	VN1R1
structural_interaction_variant	VN1R1

structural_interaction_variant	VN1R1
structural_interaction_variant	VN1R1
structural_interaction_variant	VN1R1
frameshift_variant	ZNF772
structural_interaction_variant	ZNF772
structural_interaction_variant	ZNF419
structural_interaction_variant	ZNF419
structural_interaction_variant	ZNF419
structural_interaction_variant	ZNF419
structural_interaction_variant	ZNF419
structural_interaction_variant	ZNF773
stop_gained	ZNF549
frameshift_variant	ZNF549
frameshift_variant	ZNF549
structural_interaction_variant	ZNF549
structural_interaction_variant	ZNF549
structural_interaction_variant	ZNF549
structural_interaction_variant	ZNF550
structural_interaction_variant	ZNF550
frameshift_variant	ZNF550
missense_variant&splice_region_variant	ZNF550
structural_interaction_variant	ZIK1
structural_interaction_variant	ZIK1
structural_interaction_variant	ZNF530
structural_interaction_variant	ZNF530
structural_interaction_variant	ZNF530
stop_gained	ZNF530
structural_interaction_variant	ZNF134
structural_interaction_variant	ZNF134
structural_interaction_variant	ZNF134
structural_interaction_variant	ZNF134
structural_interaction_variant	ZNF211
structural_interaction_variant	ZNF211
structural_interaction_variant	ZNF211
structural_interaction_variant	ZNF211
structural_interaction_variant	ZNF211
structural_interaction_variant	ZSCAN4
structural_interaction_variant	ZNF551
structural_interaction_variant	ZNF551
structural_interaction_variant	ZNF551
structural_interaction_variant	ZNF154
stop_gained	ZNF671
structural_interaction_variant	ZNF776
disruptive_inframe_deletion	ZNF776
frameshift_variant	ZNF776
stop_gained	ZNF776
structural_interaction_variant	ZNF586
frameshift_variant	ZNF814

structural_interaction_variant	ZNF814
structural_interaction_variant	ZNF814
structural_interaction_variant	ZNF814
structural_interaction_variant	ZNF814
structural_interaction_variant	ZNF814
frameshift_variant	ZNF814
structural_interaction_variant	ZNF814
structural_interaction_variant	ZNF814
structural_interaction_variant	ZNF814
structural_interaction_variant	ZNF418
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structural_interaction_variant	ZNF418
structural_interaction_variant	ZNF418
structural_interaction_variant	ZNF256
structural_interaction_variant	ZNF256
structural_interaction_variant	ZNF256
structural_interaction_variant	ZNF256
structural_interaction_variant	ZNF256
structural_interaction_variant	ZNF606
structural_interaction_variant	ZNF606
structural_interaction_variant	ZSCAN1
structural_interaction_variant	ZSCAN1
structural_interaction_variant	ZSCAN1
structural_interaction_variant	ZSCAN1
structural_interaction_variant	ZSCAN1
structural_interaction_variant	ZNF135
structural_interaction_variant	ZNF135
structural_interaction_variant	ZNF274
structural_interaction_variant	ZNF274
frameshift_variant	ZNF274
frameshift_variant	ZNF274
structural_interaction_variant	ZNF544
structural_interaction_variant	ZNF544
structural_interaction_variant	ZNF544
structural_interaction_variant	ZNF544
structural_interaction_variant	ZNF544
structural_interaction_variant	ZNF544
frameshift_variant	ZNF544
frameshift_variant&stop_gained	ZNF544
frameshift_variant	ZNF544
stop_gained	ZNF544
structural_interaction_variant	ZNF8
structural_interaction_variant	ZSCAN22
structural_interaction_variant	ZSCAN22

structural_interaction_variant	A1BG
structural_interaction_variant	A1BG
structural_interaction_variant	ZNF132
structural_interaction_variant	ZNF132
structural_interaction_variant	ZNF132
structural_interaction_variant	ZNF132
stop_gained	ZNF324B
structural_interaction_variant	ZNF324B
frameshift_variant	ZNF324B
structural_interaction_variant	ZNF446
structural_interaction_variant	ZNF446
structural_interaction_variant	SLC27A5
structural_interaction_variant	SLC27A5
structural_interaction_variant	SLC27A5
structural_interaction_variant	SLC27A5
structural_interaction_variant	SLC27A5
structural_interaction_variant	ZBTB45
structural_interaction_variant	MZF1
structural_interaction_variant	MZF1
stop_gained	MZF1
structural_interaction_variant	DEFB125
stop_gained	DEFB127
structural_interaction_variant	DEFB129
structural_interaction_variant	SOX12
structural_interaction_variant	NRSN2
structural_interaction_variant	TRIB3
structural_interaction_variant	TRIB3
structural_interaction_variant	TRIB3
frameshift_variant	RBCK1
structural_interaction_variant	RBCK1
structural_interaction_variant	ANGPT4
structural_interaction_variant	ANGPT4
structural_interaction_variant	ANGPT4
structural_interaction_variant	PSMF1
structural_interaction_variant	PSMF1
splice_donor_variant&intron_variant	PSMF1
structural_interaction_variant	TMEM74B
structural_interaction_variant	C20orf202
structural_interaction_variant	C20orf202
structural_interaction_variant	RAD21L1
structural_interaction_variant	RAD21L1
structural_interaction_variant	RAD21L1
structural_interaction_variant	SNPH
structural_interaction_variant	SNPH
structural_interaction_variant	SNPH
structural_interaction_variant	SDCBP2
missense_variant&splice_region_variant	NSFL1C
structural_interaction_variant	SIRPB2

structural_interaction_variant	SIRPD
structural_interaction_variant	SIRPD
structural_interaction_variant	RP4-576H24.4
structural_interaction_variant	SIRPD
structural_interaction_variant	RP4-576H24.4
structural_interaction_variant	TGM3
structural_interaction_variant	TGM3
stop_gained	TGM3
structural_interaction_variant	TGM3
structural_interaction_variant	TGM3
structural_interaction_variant	TGM6
structural_interaction_variant	TGM6
structural_interaction_variant	TGM6
structural_interaction_variant	TGM6
structural_interaction_variant	TGM6
structural_interaction_variant	SNRPB
structural_interaction_variant	TMC2
structural_interaction_variant	TMC2
stop_gained	TMC2
structural_interaction_variant	TMC2
splice_donor_variant&intron_variant	TMC2
structural_interaction_variant	TMC2
structural_interaction_variant	TMC2
structural_interaction_variant	IDH3B
splice_acceptor_variant&intron_variant	IDH3B
structural_interaction_variant	CPXM1
structural_interaction_variant	CPXM1
structural_interaction_variant	CPXM1
stop_gained	CPXM1
structural_interaction_variant	C20orf141
structural_interaction_variant	C20orf141
structural_interaction_variant	C20orf141
structural_interaction_variant	VPS16
structural_interaction_variant	VPS16
structural_interaction_variant	VPS16
structural_interaction_variant	VPS16
stop_gained	VPS16
structural_interaction_variant	VPS16
structural_interaction_variant	PTPRA
structural_interaction_variant	PTPRA
structural_interaction_variant	PTPRA
structural_interaction_variant	PTPRA
structural_interaction_variant	UBOX5
structural_interaction_variant	UBOX5
structural_interaction_variant	LZTS3
structural_interaction_variant	LZTS3
structural_interaction_variant	LZTS3
structural_interaction_variant	LZTS3

structural_interaction_variant	LZTS3
frameshift_variant	SLC4A11
structural_interaction_variant	SLC4A11
structural_interaction_variant	SLC4A11
structural_interaction_variant	C20orf194
structural_interaction_variant	C20orf194
structural_interaction_variant	C20orf194
structural_interaction_variant	C20orf194
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structural_interaction_variant	C20orf194
structural_interaction_variant	C20orf194
structural_interaction_variant	C20orf194
structural_interaction_variant	ATRN
structural_interaction_variant	ATRN
structural_interaction_variant	ATRN
structural_interaction_variant	ATRN
structural_interaction_variant	ADAM33
frameshift_variant	ADAM33
structural_interaction_variant	ADAM33
stop_gained	SIGLEC1
structural_interaction_variant	SIGLEC1
frameshift_variant	SIGLEC1
structural_interaction_variant	SIGLEC1
structural_interaction_variant	SIGLEC1
structural_interaction_variant	SIGLEC1
structural_interaction_variant	SIGLEC1
structural_interaction_variant	SIGLEC1
structural_interaction_variant	SIGLEC1
structural_interaction_variant	SIGLEC1
structural_interaction_variant	HSPA12B
splice_donor_variant&intron_variant	HSPA12B
stop_gained	HSPA12B
structural_interaction_variant	HSPA12B
structural_interaction_variant	HSPA12B
stop_gained	C20orf27
structural_interaction_variant	CENPB
structural_interaction_variant	CDC25B
structural_interaction_variant	CDC25B
structural_interaction_variant	CDC25B
structural_interaction_variant	MAVS
frameshift_variant	MAVS
structural_interaction_variant	MAVS
structural_interaction_variant	MAVS
stop_gained	MAVS
structural_interaction_variant	MAVS

structural_interaction_variant	RNF24
structural_interaction_variant	RNF24
structural_interaction_variant	SMOX
structural_interaction_variant	PRNP
structural_interaction_variant	PRND
structural_interaction_variant	RASSF2
structural_interaction_variant	SLC23A2
structural_interaction_variant	CDS2
structural_interaction_variant	PROKR2
structural_interaction_variant	GPCPD1
splice_acceptor_variant&intron_variant	GPCPD1
structural_interaction_variant	CHGB
structural_interaction_variant	CHGB
structural_interaction_variant	TRMT6
structural_interaction_variant	MCM8
frameshift_variant	MCM8
structural_interaction_variant	MCM8
structural_interaction_variant	LRRN4
structural_interaction_variant	PAK7
structural_interaction_variant	PAK7
structural_interaction_variant	PAK7
structural_interaction_variant	PAK7
structural_interaction_variant	ANKEF1
structural_interaction_variant	ANKEF1
structural_interaction_variant	ANKEF1
stop_gained	ANKEF1
structural_interaction_variant	JAG1
structural_interaction_variant	BTBD3
structural_interaction_variant	SPTLC3
structural_interaction_variant	ISM1
structural_interaction_variant	ISM1
structural_interaction_variant	TASP1
structural_interaction_variant	ESF1
structural_interaction_variant	ESF1
structural_interaction_variant	ESF1
structural_interaction_variant	ESF1
structural_interaction_variant	NDUFAF5
frameshift_variant&splice_region_variant	NDUFAF5
structural_interaction_variant	SEL1L2
splice_acceptor_variant&intron_variant	SEL1L2
structural_interaction_variant	SEL1L2
missense_variant&splice_region_variant	SEL1L2
frameshift_variant	MACROD2
missense_variant&splice_region_variant	KIF16B
structural_interaction_variant	KIF16B
structural_interaction_variant	KIF16B
stop_gained	KIF16B
structural_interaction_variant	KIF16B

structural_interaction_variant	KIF16B
structural_interaction_variant	KIF16B
structural_interaction_variant	KIF16B
splice_donor_variant&intron_variant	KIF16B
structural_interaction_variant	OTOR
structural_interaction_variant	PCSK2
structural_interaction_variant	PCSK2
structural_interaction_variant	PCSK2
structural_interaction_variant	RRBP1
structural_interaction_variant	RRBP1
splice_acceptor_variant&intron_variant	RRBP1
structural_interaction_variant	RRBP1
structural_interaction_variant	RRBP1
structural_interaction_variant	RRBP1
structural_interaction_variant	RRBP1
structural_interaction_variant	MGME1
stop_gained	MGME1
stop_gained	CSRP2BP
structural_interaction_variant	CSRP2BP
missense_variant&splice_region_variant	CSRP2BP
structural_interaction_variant	CSRP2BP
structural_interaction_variant	ZNF133
structural_interaction_variant	ZNF133
structural_interaction_variant	DZANK1
frameshift_variant	DZANK1
structural_interaction_variant	POLR3F
splice_donor_variant&intron_variant	POLR3F
structural_interaction_variant	RBBP9
structural_interaction_variant	RBBP9
structural_interaction_variant	SEC23B
frameshift_variant	SEC23B
structural_interaction_variant	SLC24A3
structural_interaction_variant	RIN2
stop_gained	RIN2
structural_interaction_variant	CRNKL1
structural_interaction_variant	C20orf26
structural_interaction_variant	C20orf26
splice_donor_variant&intron_variant	C20orf26
structural_interaction_variant	C20orf26
structural_interaction_variant	C20orf26
structural_interaction_variant	C20orf26
structural_interaction_variant	C20orf26
structural_interaction_variant	C20orf26
structural_interaction_variant	C20orf26
missense_variant&splice_region_variant	C20orf26
missense_variant&splice_region_variant	C20orf26
missense_variant&splice_region_variant	RALGAPA2
structural_interaction_variant	RALGAPA2

frameshift_variant	RALGAPA2
structural_interaction_variant	RALGAPA2
structural_interaction_variant	RALGAPA2
structural_interaction_variant	RALGAPA2
structural_interaction_variant	RALGAPA2
structural_interaction_variant	RALGAPA2
structural_interaction_variant	RALGAPA2
structural_interaction_variant	RALGAPA2
structural_interaction_variant	XRN2
structural_interaction_variant	XRN2
structural_interaction_variant	XRN2
structural_interaction_variant	NKX2-2
structural_interaction_variant	PAX1
structural_interaction_variant	FOXA2
structural_interaction_variant	FOXA2
start_lost	FOXA2
structural_interaction_variant	SSTR4
structural_interaction_variant	SSTR4
structural_interaction_variant	SSTR4
structural_interaction_variant	SSTR4
structural_interaction_variant	SSTR4
structural_interaction_variant	CD93
structural_interaction_variant	CD93
structural_interaction_variant	CD93
structural_interaction_variant	CD93
structural_interaction_variant	CD93
structural_interaction_variant	CD93
structural_interaction_variant	CD93
structural_interaction_variant	CD93
structural_interaction_variant	NXT1
stop_gained	GZF1
structural_interaction_variant	NAPB
structural_interaction_variant	CSTL1
structural_interaction_variant	CSTL1
frameshift_variant	CST9
stop_gained	CST9
structural_interaction_variant	CST5
structural_interaction_variant	CST5
structural_interaction_variant	CST5
stop_gained	CST5
structural_interaction_variant	SYNDIG1
stop_gained	CST7
structural_interaction_variant	CST7
structural_interaction_variant	ACSS1
structural_interaction_variant	ENTPD6
structural_interaction_variant	ENTPD6
structural_interaction_variant	ENTPD6
splice_acceptor_variant&intron_variant	ENTPD6

stop_gained	ABHD12
structural_interaction_variant	NINL
structural_interaction_variant	NINL
frameshift_variant	NINL
structural_interaction_variant	NINL
structural_interaction_variant	NINL
structural_interaction_variant	NINL
structural_interaction_variant	ZNF337
frameshift_variant	ZNF337
frameshift_variant	ZNF337
structural_interaction_variant	ZNF337
structural_interaction_variant	ZNF337
frameshift_variant	ZNF337
stop_gained	ZNF337
structural_interaction_variant	DEFB115
structural_interaction_variant	DEFB115
structural_interaction_variant	DEFB116
structural_interaction_variant	DEFB118
structural_interaction_variant	DEFB121
structural_interaction_variant	DEFB123
frameshift_variant	DEFB123
structural_interaction_variant	ID1
structural_interaction_variant	ID1
structural_interaction_variant	ID1
structural_interaction_variant	ID1
structural_interaction_variant	COX4I2
structural_interaction_variant	COX4I2
structural_interaction_variant	TPX2
structural_interaction_variant	FOXS1
structural_interaction_variant	FOXS1
structural_interaction_variant	FOXS1
structural_interaction_variant	FOXS1
disruptive_inframe_deletion	FOXS1
structural_interaction_variant	FOXS1
structural_interaction_variant	FOXS1
splice_donor_variant&intron_variant	TTLL9
structural_interaction_variant	TTLL9
stop_gained	TM9SF4
structural_interaction_variant	TM9SF4
structural_interaction_variant	KIF3B
frameshift_variant	ASXL1
stop_gained	ASXL1
structural_interaction_variant	C20orf112
structural_interaction_variant	DNMT3B
frameshift_variant	DNMT3B
structural_interaction_variant	DNMT3B
missense_variant&splice_region_variant	EFCAB8
stop_gained	EFCAB8

structural_interaction_variant	BPIFB2
structural_interaction_variant	BPIFB2
structural_interaction_variant	BPIFB6
stop_gained	BPIFB6
splice_acceptor_variant&intron_variant	BPIFB6
missense_variant&splice_region_variant	BPIFB6
structural_interaction_variant	BPIFB6
structural_interaction_variant	BPIFB3
structural_interaction_variant	BPIFB4
structural_interaction_variant	BPIFB4
structural_interaction_variant	BPIFB4
structural_interaction_variant	BPIFA2
structural_interaction_variant	BPIFA2
structural_interaction_variant	BPIFA1
structural_interaction_variant	BPIFA1
structural_interaction_variant	BPIFB1
structural_interaction_variant	BPIFB1
frameshift_variant	BPIFB1
stop_gained	CDK5RAP1
structural_interaction_variant	CDK5RAP1
structural_interaction_variant	CDK5RAP1
frameshift_variant	CDK5RAP1
structural_interaction_variant	SNTA1
structural_interaction_variant	CBFA2T2
structural_interaction_variant	CBFA2T2
structural_interaction_variant	CBFA2T2
structural_interaction_variant	NECAB3
structural_interaction_variant	E2F1
frameshift_variant	PXMP4
stop_gained	ZNF341
structural_interaction_variant	RALY
structural_interaction_variant	RALY
structural_interaction_variant	RALY
structural_interaction_variant	ITCH
structural_interaction_variant	PIGU
structural_interaction_variant	PIGU
structural_interaction_variant	PIGU
structural_interaction_variant	NCOA6
structural_interaction_variant	NCOA6
structural_interaction_variant	NCOA6
structural_interaction_variant	NCOA6
structural_interaction_variant	NCOA6
structural_interaction_variant	NCOA6
structural_interaction_variant	GGT7
structural_interaction_variant	GGT7
structural_interaction_variant	ACSS2
structural_interaction_variant	ACSS2
structural_interaction_variant	ACSS2

structural_interaction_variant	GSS
structural_interaction_variant	MYH7B
structural_interaction_variant	MYH7B
splice_donor_variant&intron_variant	MYH7B
structural_interaction_variant	MYH7B
structural_interaction_variant	MYH7B
structural_interaction_variant	MYH7B
structural_interaction_variant	MYH7B
frameshift_variant	MYH7B
structural_interaction_variant	MYH7B
structural_interaction_variant	MYH7B
structural_interaction_variant	MYH7B
frameshift_variant	MYH7B
structural_interaction_variant	TRPC4AP
structural_interaction_variant	TRPC4AP
structural_interaction_variant	TRPC4AP
structural_interaction_variant	TRPC4AP
structural_interaction_variant	EDEM2
structural_interaction_variant	EDEM2
structural_interaction_variant	MMP24
structural_interaction_variant	FAM83C
structural_interaction_variant	FAM83C
frameshift_variant	FAM83C
missense_variant&splice_region_variant	UQCC1
splice_acceptor_variant&intron_variant	UQCC1
structural_interaction_variant	UQCC1
stop_gained	CEP250
stop_gained	CEP250
structural_interaction_variant	C20orf173
structural_interaction_variant	ERGIC3
structural_interaction_variant	SPAG4
missense_variant&splice_region_variant	SPAG4
structural_interaction_variant	SPAG4
structural_interaction_variant	SPAG4
structural_interaction_variant	CPNE1
splice_donor_variant&intron_variant	CPNE1
structural_interaction_variant	CPNE1
stop_gained	CPNE1
structural_interaction_variant	CPNE1
structural_interaction_variant	CPNE1
structural_interaction_variant	NFS1
structural_interaction_variant	NFS1
structural_interaction_variant	ROMO1
structural_interaction_variant	RBM39
missense_variant&splice_region_variant	RBM39
structural_interaction_variant	PHF20
structural_interaction_variant	PHF20
start_lost	SCAND1

missense_variant&splice_region_variant	CNBD2
structural_interaction_variant	CNBD2
splice_acceptor_variant&intron_variant	CNBD2
structural_interaction_variant	DLGAP4
structural_interaction_variant	DLGAP4
structural_interaction_variant	DLGAP4
structural_interaction_variant	DLGAP4
structural_interaction_variant	DLGAP4
structural_interaction_variant	DLGAP4
structural_interaction_variant	DLGAP4
structural_interaction_variant	MYL9
structural_interaction_variant	TGIF2
structural_interaction_variant	SLA2
structural_interaction_variant	SLA2
structural_interaction_variant	SLA2
structural_interaction_variant	NDRG3
structural_interaction_variant	DSN1
structural_interaction_variant	SOGA1
structural_interaction_variant	SOGA1
structural_interaction_variant	SOGA1
structural_interaction_variant	SAMHD1
structural_interaction_variant	RBL1
structural_interaction_variant	RBL1
structural_interaction_variant	RBL1
structural_interaction_variant	RBL1
splice_donor_variant&intron_variant	MROH8
structural_interaction_variant	MROH8
stop_gained	MROH8
structural_interaction_variant	RPN2
structural_interaction_variant	RPN2
structural_interaction_variant	GHRH
missense_variant&splice_region_variant	SRC
structural_interaction_variant	TTI1
structural_interaction_variant	TTI1
structural_interaction_variant	TTI1
frameshift_variant	TTI1
structural_interaction_variant	TTI1
structural_interaction_variant	TTI1
structural_interaction_variant	TTI1
structural_interaction_variant	TGM2
structural_interaction_variant	KIAA1755
structural_interaction_variant	KIAA1755
structural_interaction_variant	KIAA1755
stop_gained	KIAA1755
frameshift_variant	KIAA1755
structural_interaction_variant	KIAA1755
structural_interaction_variant	KIAA1755
structural_interaction_variant	KIAA1755

structural_interaction_variant	BPI
structural_interaction_variant	BPI
structural_interaction_variant	BPI
splice_donor_variant&intron_variant	BPI
structural_interaction_variant	LBP
missense_variant&splice_region_variant	LBP
structural_interaction_variant	LBP
missense_variant&splice_region_variant	RALGAPB
structural_interaction_variant	RALGAPB
structural_interaction_variant	RALGAPB
structural_interaction_variant	RALGAPB
structural_interaction_variant	RALGAPB
frameshift_variant	ARHGAP40
structural_interaction_variant	ARHGAP40
structural_interaction_variant	SLC32A1
structural_interaction_variant	SLC32A1
structural_interaction_variant	SLC32A1
structural_interaction_variant	PPP1R16B
structural_interaction_variant	PPP1R16B
structural_interaction_variant	FAM83D
structural_interaction_variant	FAM83D
structural_interaction_variant	FAM83D
structural_interaction_variant	FAM83D
structural_interaction_variant	FAM83D
structural_interaction_variant	FAM83D
structural_interaction_variant	FAM83D
structural_interaction_variant	DHX35
missense_variant&splice_region_variant	DHX35
structural_interaction_variant	TOP1
structural_interaction_variant	PLCG1
structural_interaction_variant	PLCG1
structural_interaction_variant	PLCG1
structural_interaction_variant	PLCG1
structural_interaction_variant	PLCG1
structural_interaction_variant	ZHX3
structural_interaction_variant	ZHX3
structural_interaction_variant	ZHX3
structural_interaction_variant	ZHX3
structural_interaction_variant	ZHX3
structural_interaction_variant	LPIN3
structural_interaction_variant	LPIN3
stop_gained	LPIN3
stop_gained	LPIN3
structural_interaction_variant	LPIN3
structural_interaction_variant	LPIN3
missense_variant&splice_region_variant	EMILIN3
structural_interaction_variant	CHD6
structural_interaction_variant	CHD6

structural_interaction_variant	CHD6
structural_interaction_variant	CHD6
structural_interaction_variant	CHD6
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structural_interaction_variant	CHD6
structural_interaction_variant	PTPRT
structural_interaction_variant	PTPRT
structural_interaction_variant	PTPRT
splice_donor_variant&intron_variant	PTPRT
structural_interaction_variant	PTPRT
structural_interaction_variant	PTPRT
structural_interaction_variant	SRSF6
structural_interaction_variant	SRSF6
structural_interaction_variant	SRSF6
structural_interaction_variant	L3MBTL1
structural_interaction_variant	L3MBTL1
structural_interaction_variant	L3MBTL1
structural_interaction_variant	L3MBTL1
structural_interaction_variant	L3MBTL1
structural_interaction_variant	L3MBTL1
structural_interaction_variant	L3MBTL1
structural_interaction_variant	L3MBTL1
structural_interaction_variant	L3MBTL1
frameshift_variant	L3MBTL1
frameshift_variant&splice_region_variant	L3MBTL1
structural_interaction_variant	MYBL2
structural_interaction_variant	MYBL2
structural_interaction_variant	MYBL2
structural_interaction_variant	MYBL2
structural_interaction_variant	GTSF1L
structural_interaction_variant	TOX2
structural_interaction_variant	TOX2
structural_interaction_variant	OSER1
stop_gained	GDAP1L1
structural_interaction_variant	R3HDML
structural_interaction_variant	R3HDML
frameshift_variant	HNF4A
missense_variant&splice_region_variant	TTPAL
structural_interaction_variant	TTPAL
structural_interaction_variant	SERINC3
structural_interaction_variant	ADA
structural_interaction_variant	ADA
frameshift_variant	WISP2
structural_interaction_variant	KCNK15
structural_interaction_variant	KCNK15
structural_interaction_variant	PABPC1L
structural_interaction_variant	PABPC1L
stop_gained	PABPC1L
structural_interaction_variant	TOMM34

structural_interaction_variant	PI3
structural_interaction_variant	SEMG1
structural_interaction_variant	SEMG1
stop_gained	SEMG2
structural_interaction_variant	SEMG2
structural_interaction_variant	SEMG2
structural_interaction_variant	SLPI
structural_interaction_variant	MATN4
stop_gained	MATN4
structural_interaction_variant	MATN4
structural_interaction_variant	MATN4
structural_interaction_variant	RBPJL
structural_interaction_variant	SDC4
structural_interaction_variant	TP53TG5
missense_variant&splice_region_variant	PIGT
structural_interaction_variant	PIGT
structural_interaction_variant	PIGT
missense_variant&splice_region_variant	PIGT
structural_interaction_variant	PIGT
splice_donor_variant&intron_variant	WFDC8
splice_donor_variant&intron_variant	WFDC8
structural_interaction_variant	WFDC8
structural_interaction_variant	WFDC10A
structural_interaction_variant	WFDC11
structural_interaction_variant	WFDC11
structural_interaction_variant	WFDC10B
missense_variant&splice_region_variant	SPINT4
structural_interaction_variant	UBE2C
frameshift_variant	TNNC2
structural_interaction_variant	TNNC2
structural_interaction_variant	SNX21
structural_interaction_variant	SNX21
structural_interaction_variant	ACOT8
frameshift_variant	ACOT8
structural_interaction_variant	ACOT8
structural_interaction_variant	ACOT8
structural_interaction_variant	ACOT8
structural_interaction_variant	ZSWIM3
structural_interaction_variant	ZSWIM1
frameshift_variant	SPATA25
structural_interaction_variant	SPATA25
structural_interaction_variant	SPATA25
structural_interaction_variant	ZNF335
structural_interaction_variant	MMP9
structural_interaction_variant	MMP9
structural_interaction_variant	MMP9
structural_interaction_variant	MMP9
structural_interaction_variant	MMP9

structural_interaction_variant	MMP9
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structural_interaction_variant	MMP9
structural_interaction_variant	MMP9
structural_interaction_variant	MMP9
structural_interaction_variant	NCOA5
structural_interaction_variant	NCOA5
structural_interaction_variant	CD40
structural_interaction_variant	CDH22
stop_gained	SLC35C2
structural_interaction_variant	ELMO2
structural_interaction_variant	ZNF334
structural_interaction_variant	ZNF334
structural_interaction_variant	ZNF334
structural_interaction_variant	OCSTAMP
structural_interaction_variant	OCSTAMP
structural_interaction_variant	SLC13A3
structural_interaction_variant	SLC13A3
frameshift_variant	SLC2A10
structural_interaction_variant	SLC2A10
structural_interaction_variant	EYA2
structural_interaction_variant	ZMYND8
structural_interaction_variant	ZMYND8
structural_interaction_variant	ZMYND8
structural_interaction_variant	AL031666.2
structural_interaction_variant	NCOA3
structural_interaction_variant	NCOA3
structural_interaction_variant	NCOA3
stop_gained	NCOA3
frameshift_variant	NCOA3
structural_interaction_variant	NCOA3
missense_variant&splice_region_variant	NCOA3
structural_interaction_variant	SULF2
missense_variant&splice_region_variant	PREX1
structural_interaction_variant	PREX1
structural_interaction_variant	CSE1L
structural_interaction_variant	CSE1L
structural_interaction_variant	CSE1L
structural_interaction_variant	STAU1
structural_interaction_variant	STAU1
structural_interaction_variant	STAU1
structural_interaction_variant	STAU1
stop_gained	DDX27
structural_interaction_variant	DDX27
structural_interaction_variant	ZNFX1
frameshift_variant	ZNFX1
structural_interaction_variant	ZNFX1
structural_interaction_variant	ZNFX1

structural_interaction_variant	ZNFX1
stop_gained	ZNFX1
structural_interaction_variant	ZNFX1
structural_interaction_variant	ZNFX1
structural_interaction_variant	ZNFX1
structural_interaction_variant	ZNFX1
structural_interaction_variant	PTGIS
structural_interaction_variant	PTGIS
structural_interaction_variant	SLC9A8
structural_interaction_variant	SLC9A8
structural_interaction_variant	SLC9A8
structural_interaction_variant	SPATA2
structural_interaction_variant	RNF114
structural_interaction_variant	RNF114
structural_interaction_variant	SNAI1
structural_interaction_variant	PTPN1
structural_interaction_variant	FAM65C
structural_interaction_variant	PARD6B
structural_interaction_variant	PARD6B
structural_interaction_variant	BCAS4
structural_interaction_variant	DPM1
stop_gained	MOCS3
structural_interaction_variant	MOCS3
structural_interaction_variant	KCNG1
structural_interaction_variant	KCNG1
structural_interaction_variant	NFATC2
structural_interaction_variant	NFATC2
structural_interaction_variant	NFATC2
structural_interaction_variant	ATP9A
structural_interaction_variant	ZFP64
structural_interaction_variant	ZFP64
structural_interaction_variant	ZFP64
stop_gained	ZFP64
structural_interaction_variant	ZFP64
structural_interaction_variant	ZFP64
structural_interaction_variant	TSHZ2
structural_interaction_variant	TSHZ2
structural_interaction_variant	TSHZ2
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structural_interaction_variant	TSHZ2
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structural_interaction_variant	TSHZ2
structural_interaction_variant	ZNF217
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structural_interaction_variant	ZNF217
structural_interaction_variant	BCAS1
structural_interaction_variant	BCAS1
frameshift_variant	BCAS1
frameshift_variant	BCAS1
stop_gained	CYP24A1
structural_interaction_variant	CYP24A1
structural_interaction_variant	DOK5
structural_interaction_variant	DOK5
structural_interaction_variant	MC3R
structural_interaction_variant	MC3R
structural_interaction_variant	MC3R
structural_interaction_variant	MC3R
structural_interaction_variant	MC3R
structural_interaction_variant	MC3R
structural_interaction_variant	AURKA
structural_interaction_variant	CSTF1
structural_interaction_variant	CASS4
structural_interaction_variant	CASS4
structural_interaction_variant	CASS4
structural_interaction_variant	CASS4
structural_interaction_variant	CASS4
structural_interaction_variant	GCNT7
structural_interaction_variant	RTFDC1
structural_interaction_variant	TFAP2C
structural_interaction_variant	TFAP2C
structural_interaction_variant	SPO11
structural_interaction_variant	CTCFL
structural_interaction_variant	CTCFL
stop_gained	ZBP1
stop_gained	ZBP1
structural_interaction_variant	PMEPA1
structural_interaction_variant	ANKRD60
structural_interaction_variant	PPP4R1L
structural_interaction_variant	PPP4R1L
structural_interaction_variant	VAPB
structural_interaction_variant	NPEPL1
structural_interaction_variant	NPEPL1
structural_interaction_variant	NPEPL1
structural_interaction_variant	NPEPL1
structural_interaction_variant	GNAS
structural_interaction_variant	NELFCD
structural_interaction_variant	NELFCD
structural_interaction_variant	NELFCD
structural_interaction_variant	TUBB1

structural_interaction_variant	SLMO2
structural_interaction_variant	ZNF831
frameshift_variant	ZNF831
structural_interaction_variant	ZNF831
structural_interaction_variant	ZNF831
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structural_interaction_variant	ZNF831
structural_interaction_variant	SYCP2
structural_interaction_variant	SYCP2
structural_interaction_variant	SYCP2
structural_interaction_variant	SYCP2
structural_interaction_variant	SYCP2
structural_interaction_variant	SYCP2
structural_interaction_variant	SYCP2
structural_interaction_variant	SYCP2
structural_interaction_variant	CDH26
structural_interaction_variant	CDH26
splice_donor_variant&intron_variant	CDH26
structural_interaction_variant	CDH26
structural_interaction_variant	CDH26
structural_interaction_variant	C20orf197
structural_interaction_variant	CDH4
structural_interaction_variant	CDH4
structural_interaction_variant	TAF4
structural_interaction_variant	LSM14B
structural_interaction_variant	MTG2
stop_gained	MTG2
structural_interaction_variant	HRH3
stop_gained	HRH3
splice_acceptor_variant&intron_variant	OSBPL2
structural_interaction_variant	OSBPL2
structural_interaction_variant	LAMA5
structural_interaction_variant	LAMA5
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structural_interaction_variant	LAMA5
structural_interaction_variant	CABLES2
structural_interaction_variant	RBBP8NL
structural_interaction_variant	SLCO4A1
structural_interaction_variant	SLCO4A1
structural_interaction_variant	SLCO4A1
structural_interaction_variant	SLCO4A1
structural_interaction_variant	SLCO4A1
structural_interaction_variant	SLCO4A1
structural_interaction_variant	NTSR1
structural_interaction_variant	NTSR1
structural_interaction_variant	NTSR1
structural_interaction_variant	OGFR
structural_interaction_variant	OGFR
structural_interaction_variant	OGFR
structural_interaction_variant	COL9A3
structural_interaction_variant	TCFL5
structural_interaction_variant	TCFL5
structural_interaction_variant	TCFL5
structural_interaction_variant	DIDO1
structural_interaction_variant	DIDO1
structural_interaction_variant	DIDO1
structural_interaction_variant	DIDO1
structural_interaction_variant	DIDO1
structural_interaction_variant	GID8
stop_gained	GID8
missense_variant&splice_region_variant	SLC17A9
structural_interaction_variant	YTHDF1
structural_interaction_variant	YTHDF1
structural_interaction_variant	BIRC7
structural_interaction_variant	BIRC7
structural_interaction_variant	ARFGAP1
structural_interaction_variant	COL20A1
structural_interaction_variant	COL20A1
structural_interaction_variant	CHRNA4
structural_interaction_variant	CHRNA4
structural_interaction_variant	CHRNA4
structural_interaction_variant	KCNQ2
structural_interaction_variant	EEF1A2
structural_interaction_variant	PPDPF
structural_interaction_variant	PTK6
structural_interaction_variant	PTK6
structural_interaction_variant	PTK6
structural_interaction_variant	PTK6
structural_interaction_variant	SRMS
structural_interaction_variant	HELZ2
structural_interaction_variant	HELZ2
structural_interaction_variant	HELZ2

structural_interaction_variant	HELZ2
structural_interaction_variant	HELZ2
missense_variant&splice_region_variant	HELZ2
structural_interaction_variant	HELZ2
stop_gained	GMEB2
structural_interaction_variant	GMEB2
structural_interaction_variant	GMEB2
structural_interaction_variant	RTEL1-TNFRSF6B
stop_gained	RTEL1
structural_interaction_variant	ARFRP1
frameshift_variant	ZGPAT
structural_interaction_variant	ZGPAT
structural_interaction_variant	LIME1
structural_interaction_variant	LIME1
structural_interaction_variant	LIME1
splice_acceptor_variant&intron_variant	ZBTB46
structural_interaction_variant	ABHD16B
structural_interaction_variant	ABHD16B
structural_interaction_variant	ABHD16B
structural_interaction_variant	ABHD16B
structural_interaction_variant	TPD52L2
structural_interaction_variant	UCKL1
splice_donor_variant&intron_variant	UCKL1
structural_interaction_variant	ZNF512B
structural_interaction_variant	ZNF512B
structural_interaction_variant	ZNF512B
structural_interaction_variant	ZNF512B
structural_interaction_variant	SAMD10
structural_interaction_variant	PRPF6
structural_interaction_variant	TCEA2
structural_interaction_variant	TCEA2
structural_interaction_variant	OPRL1
structural_interaction_variant	OPRL1
structural_interaction_variant	NPBWR2
structural_interaction_variant	MYT1
structural_interaction_variant	MYT1
structural_interaction_variant	MYT1
structural_interaction_variant	MYT1
structural_interaction_variant	MYT1
structural_interaction_variant	PCMTD2
structural_interaction_variant	TPTE
missense_variant&splice_region_variant	LIPI
stop_gained	LIPI
structural_interaction_variant	LIPI
structural_interaction_variant	LIPI
structural_interaction_variant	LIPI
structural_interaction_variant	LIPI
structural_interaction_variant	LIPI

structural_interaction_variant	LIPI
start_lost	RBM11
structural_interaction_variant	RBM11
missense_variant&splice_region_variant	HSPA13
structural_interaction_variant	HSPA13
structural_interaction_variant	HSPA13
structural_interaction_variant	SAMSN1
structural_interaction_variant	USP25
structural_interaction_variant	CXADR
structural_interaction_variant	C21orf91
structural_interaction_variant	C21orf91
stop_gained	CHODL
structural_interaction_variant	CHODL
structural_interaction_variant	NCAM2
structural_interaction_variant	NCAM2
structural_interaction_variant	NCAM2
structural_interaction_variant	NCAM2
splice_donor_variant&intron_variant	NCAM2
structural_interaction_variant	NCAM2
structural_interaction_variant	NCAM2
structural_interaction_variant	NCAM2
structural_interaction_variant	ATP5J
structural_interaction_variant	APP
structural_interaction_variant	ADAMTS1
structural_interaction_variant	ADAMTS1
structural_interaction_variant	ADAMTS5
structural_interaction_variant	ADAMTS5
structural_interaction_variant	ADAMTS5
structural_interaction_variant	ADAMTS5
structural_interaction_variant	ADAMTS5
structural_interaction_variant	N6AMT1
structural_interaction_variant	N6AMT1
structural_interaction_variant	LTN1
structural_interaction_variant	LTN1
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structural_interaction_variant	LTN1
structural_interaction_variant	LTN1
structural_interaction_variant	LTN1
structural_interaction_variant	LTN1
structural_interaction_variant	RWDD2B
structural_interaction_variant	USP16
stop_gained	USP16
structural_interaction_variant	USP16
structural_interaction_variant	USP16
structural_interaction_variant	USP16
structural_interaction_variant	MAP3K7CL
structural_interaction_variant	MAP3K7CL
structural_interaction_variant	BACH1

disruptive_inframe_deletion	BACH1
frameshift_variant	BACH1
structural_interaction_variant	BACH1
structural_interaction_variant	GRIK1
structural_interaction_variant	GRIK1
structural_interaction_variant	GRIK1
structural_interaction_variant	GRIK1
structural_interaction_variant	GRIK1
structural_interaction_variant	CLDN17
frameshift_variant	KRTAP24-1
structural_interaction_variant	KRTAP13-4
structural_interaction_variant	KRTAP13-4
frameshift_variant	KRTAP15-1
structural_interaction_variant	KRTAP6-2
start_lost	KRTAP20-3
structural_interaction_variant	KRTAP20-3
structural_interaction_variant	KRTAP20-3
structural_interaction_variant	KRTAP21-3
structural_interaction_variant	KRTAP21-3
structural_interaction_variant	KRTAP21-3
structural_interaction_variant	KRTAP21-3
structural_interaction_variant	TIAM1
stop_gained	TIAM1
structural_interaction_variant	TIAM1
structural_interaction_variant	TIAM1
structural_interaction_variant	TIAM1
structural_interaction_variant	TIAM1
structural_interaction_variant	TIAM1
frameshift_variant	SCAF4
structural_interaction_variant	HUNK
structural_interaction_variant	HUNK
structural_interaction_variant	URB1
structural_interaction_variant	URB1
structural_interaction_variant	URB1
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structural_interaction_variant	URB1
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structural_interaction_variant	URB1
structural_interaction_variant	URB1
structural_interaction_variant	TCP10L
structural_interaction_variant	TCP10L
structural_interaction_variant	SYNJ1
structural_interaction_variant	SYNJ1
structural_interaction_variant	PAXBP1
structural_interaction_variant	C21orf62
structural_interaction_variant	IFNAR2
structural_interaction_variant	IFNAR2
structural_interaction_variant	IFNAR2

structural_interaction_variant	IFNAR2
structural_interaction_variant	IFNAR1
splice_donor_variant&intron_variant	IFNGR2
frameshift_variant	IFNGR2
stop_gained	IFNGR2
structural_interaction_variant	IFNGR2
frameshift_variant	IFNGR2
structural_interaction_variant	IFNGR2
frameshift_variant	DNAJC28
structural_interaction_variant	DNAJC28
structural_interaction_variant	DNAJC28
frameshift_variant	GART
structural_interaction_variant	GART
missense_variant&splice_region_variant	GART
frameshift_variant	SON
structural_interaction_variant	DONSON
structural_interaction_variant	DONSON
structural_interaction_variant	CRYZL1
structural_interaction_variant	CRYZL1
splice_acceptor_variant&intron_variant	CRYZL1
structural_interaction_variant	ITSN1
structural_interaction_variant	ITSN1
structural_interaction_variant	ITSN1
structural_interaction_variant	ITSN1
structural_interaction_variant	ITSN1
structural_interaction_variant	ITSN1
missense_variant&splice_region_variant	ATP5O
structural_interaction_variant	SLC5A3
structural_interaction_variant	SLC5A3
structural_interaction_variant	C21orf140
structural_interaction_variant	C21orf140
structural_interaction_variant	RCAN1
structural_interaction_variant	CLIC6
frameshift_variant	RUNX1
structural_interaction_variant	RUNX1
structural_interaction_variant	SETD4
structural_interaction_variant	SETD4
structural_interaction_variant	CBR1
structural_interaction_variant	CBR1
stop_gained	CBR1
structural_interaction_variant	CBR1
frameshift_variant	CBR3
structural_interaction_variant	CBR3
structural_interaction_variant	DOPEY2
structural_interaction_variant	DOPEY2
structural_interaction_variant	DOPEY2
structural_interaction_variant	DOPEY2
structural_interaction_variant	DOPEY2

structural_interaction_variant	DOPEY2
structural_interaction_variant	DOPEY2
structural_interaction_variant	DOPEY2
structural_interaction_variant	DOPEY2
structural_interaction_variant	DOPEY2
structural_interaction_variant	DOPEY2
structural_interaction_variant	DOPEY2
splice_donor_variant&intron_variant	DOPEY2
structural_interaction_variant	DOPEY2
missense_variant&splice_region_variant	DOPEY2
structural_interaction_variant	DOPEY2
structural_interaction_variant	DOPEY2
structural_interaction_variant	MORC3
structural_interaction_variant	MORC3
structural_interaction_variant	MORC3
structural_interaction_variant	MORC3
frameshift_variant	SIM2
structural_interaction_variant	TTC3
structural_interaction_variant	TTC3
structural_interaction_variant	TTC3
stop_gained	TTC3
structural_interaction_variant	TTC3
frameshift_variant	TTC3
structural_interaction_variant	DYRK1A
structural_interaction_variant	KCNJ15
structural_interaction_variant	ETS2
structural_interaction_variant	PSMG1
disruptive_inframe_deletion	BRWD1
structural_interaction_variant	BRWD1
structural_interaction_variant	BRWD1
structural_interaction_variant	BRWD1
structural_interaction_variant	BRWD1
structural_interaction_variant	BRWD1
structural_interaction_variant	BRWD1
structural_interaction_variant	BRWD1
structural_interaction_variant	BRWD1
structural_interaction_variant	BRWD1
structural_interaction_variant	BRWD1
structural_interaction_variant	BRWD1
structural_interaction_variant	BRWD1
structural_interaction_variant	HMGN1
structural_interaction_variant	WRB
structural_interaction_variant	SH3BGR
structural_interaction_variant	SH3BGR
structural_interaction_variant	SH3BGR
splice_acceptor_variant&intron_variant	SH3BGR
disruptive_inframe_insertion	B3GALT5
structural_interaction_variant	B3GALT5
structural_interaction_variant	IGSF5

structural_interaction_variant	IGSF5
missense_variant&splice_region_variant	PCP4
structural_interaction_variant	PCP4
structural_interaction_variant	DSCAM
structural_interaction_variant	DSCAM
structural_interaction_variant	DSCAM
structural_interaction_variant	DSCAM
structural_interaction_variant	DSCAM
structural_interaction_variant	DSCAM
structural_interaction_variant	BACE2
structural_interaction_variant	FAM3B
stop_gained	FAM3B
structural_interaction_variant	MX2
structural_interaction_variant	MX2
disruptive_inframe_deletion	MX2
stop_gained	MX2
structural_interaction_variant	MX2
stop_gained	MX2
structural_interaction_variant	MX2
structural_interaction_variant	MX1
structural_interaction_variant	MX1
structural_interaction_variant	MX1
structural_interaction_variant	TMPRSS2
structural_interaction_variant	TMPRSS2
structural_interaction_variant	PRDM15
structural_interaction_variant	PRDM15
structural_interaction_variant	PRDM15
structural_interaction_variant	PRDM15
structural_interaction_variant	PRDM15
structural_interaction_variant	PRDM15
structural_interaction_variant	PRDM15
frameshift_variant	PRDM15
structural_interaction_variant	PRDM15
stop_gained	C2CD2
structural_interaction_variant	C2CD2
structural_interaction_variant	C2CD2
structural_interaction_variant	C2CD2
structural_interaction_variant	ZBTB21
structural_interaction_variant	ZBTB21
stop_gained	UMODL1
structural_interaction_variant	UMODL1
stop_gained	UMODL1
structural_interaction_variant	UMODL1
frameshift_variant	UMODL1
structural_interaction_variant	UMODL1
structural_interaction_variant	UMODL1
structural_interaction_variant	UMODL1

structural_interaction_variant	UMODL1
structural_interaction_variant	UMODL1
structural_interaction_variant	UMODL1
structural_interaction_variant	UMODL1
structural_interaction_variant	UMODL1
structural_interaction_variant	ABCG1
structural_interaction_variant	ABCG1
structural_interaction_variant	ABCG1
structural_interaction_variant	TFF3
structural_interaction_variant	TFF3
structural_interaction_variant	TMPRSS3
missense_variant&splice_region_variant	TMPRSS3
missense_variant&splice_region_variant	UBASH3A
structural_interaction_variant	UBASH3A
missense_variant&splice_region_variant	UBASH3A
structural_interaction_variant	UBASH3A
structural_interaction_variant	UBASH3A
structural_interaction_variant	RSPH1
structural_interaction_variant	SLC37A1
structural_interaction_variant	SLC37A1
structural_interaction_variant	SLC37A1
structural_interaction_variant	SLC37A1
missense_variant&splice_region_variant	PDE9A
structural_interaction_variant	PDE9A
structural_interaction_variant	PDE9A
structural_interaction_variant	PDE9A
structural_interaction_variant	PDE9A
structural_interaction_variant	PDE9A
structural_interaction_variant	NDUFV3
structural_interaction_variant	NDUFV3
structural_interaction_variant	PKNOX1
structural_interaction_variant	PKNOX1
structural_interaction_variant	PKNOX1
structural_interaction_variant	PKNOX1
structural_interaction_variant	CBS
structural_interaction_variant	CBS
structural_interaction_variant	HSF2BP
structural_interaction_variant	HSF2BP
structural_interaction_variant	PDXK
structural_interaction_variant	RRP1
structural_interaction_variant	RRP1
structural_interaction_variant	RRP1
structural_interaction_variant	RRP1
structural_interaction_variant	TRAPPC10
structural_interaction_variant	TRAPPC10
structural_interaction_variant	TRAPPC10
structural_interaction_variant	TRAPPC10
structural_interaction_variant	PWP2

structural_interaction_variant	PWP2
missense_variant&splice_region_variant	PWP2
structural_interaction_variant	C21orf33
structural_interaction_variant	ICOSLG
structural_interaction_variant	PFKL
structural_interaction_variant	PFKL
structural_interaction_variant	PFKL
structural_interaction_variant	PFKL
structural_interaction_variant	PFKL
structural_interaction_variant	PFKL
structural_interaction_variant	TRPM2
frameshift_variant	TRPM2
stop_gained	TRPM2
frameshift_variant	TRPM2
structural_interaction_variant	TRPM2
structural_interaction_variant	TRPM2
structural_interaction_variant	TRPM2
structural_interaction_variant	TRPM2
structural_interaction_variant	TRPM2
structural_interaction_variant	TRPM2
missense_variant&splice_region_variant	TRPM2
structural_interaction_variant	TRPM2
structural_interaction_variant	TRPM2
structural_interaction_variant	TSPEAR
frameshift_variant	KRTAP10-2
conservative_inframe_deletion	KRTAP10-3
structural_interaction_variant	KRTAP10-9
frameshift_variant	KRTAP10-10
frameshift_variant	KRTAP10-10
frameshift_variant	KRTAP10-10
structural_interaction_variant	KRTAP10-10
disruptive_inframe_insertion	KRTAP10-10
structural_interaction_variant	KRTAP10-10
structural_interaction_variant	KRTAP10-10
structural_interaction_variant	KRTAP10-10
disruptive_inframe_insertion	KRTAP10-10
structural_interaction_variant	KRTAP10-10
structural_interaction_variant	KRTAP10-10
stop_gained&disruptive_inframe_deletion	KRTAP10-10
structural_interaction_variant	KRTAP10-10
structural_interaction_variant	KRTAP10-11
structural_interaction_variant	KRTAP10-11
structural_interaction_variant	KRTAP12-3
structural_interaction_variant	UBE2G2
structural_interaction_variant	ITGB2
structural_interaction_variant	ITGB2
structural_interaction_variant	ITGB2
structural_interaction_variant	FAM207A

structural_interaction_variant	ADARB1
structural_interaction_variant	ADARB1
structural_interaction_variant	ADARB1
structural_interaction_variant	ADARB1
structural_interaction_variant	POFUT2
structural_interaction_variant	POFUT2
stop_gained	COL18A1
structural_interaction_variant	COL18A1
structural_interaction_variant	COL18A1
structural_interaction_variant	COL18A1
frameshift_variant	SLC19A1
structural_interaction_variant	SLC19A1
structural_interaction_variant	SLC19A1
structural_interaction_variant	PCBP3
structural_interaction_variant	PCBP3
structural_interaction_variant	PCBP3
structural_interaction_variant	COL6A1
frameshift_variant	COL6A2
frameshift_variant	FTCD
structural_interaction_variant	LSS
stop_gained	MCM3AP
structural_interaction_variant	MCM3AP
structural_interaction_variant	MCM3AP
structural_interaction_variant	MCM3AP
structural_interaction_variant	MCM3AP
structural_interaction_variant	YBEY
structural_interaction_variant	YBEY
structural_interaction_variant	C21orf58
stop_gained	PCNT
stop_gained	PCNT
structural_interaction_variant	DIP2A
structural_interaction_variant	DIP2A
structural_interaction_variant	DIP2A
structural_interaction_variant	DIP2A
structural_interaction_variant	DIP2A
structural_interaction_variant	DIP2A
structural_interaction_variant	DIP2A
structural_interaction_variant	DIP2A
structural_interaction_variant	DIP2A
missense_variant&splice_region_variant	DIP2A
structural_interaction_variant	DIP2A
frameshift_variant	DIP2A
structural_interaction_variant	PRMT2
stop_gained	XKR3
structural_interaction_variant	GAB4
stop_gained	IL17RA
structural_interaction_variant	IL17RA

structural_interaction_variant	CECR6
structural_interaction_variant	CECR1
structural_interaction_variant	CECR1
structural_interaction_variant	CECR2
structural_interaction_variant	CECR2
structural_interaction_variant	CECR2
structural_interaction_variant	CECR2
structural_interaction_variant	CECR2
structural_interaction_variant	CECR2
structural_interaction_variant	CECR2
structural_interaction_variant	CECR2
frameshift_variant	CECR2
frameshift_variant	CECR2
stop_gained	SLC25A18
stop_gained	SLC25A18
structural_interaction_variant	ATP6V1E1
structural_interaction_variant	MICAL3
structural_interaction_variant	MICAL3
structural_interaction_variant	MICAL3
frameshift_variant	MICAL3
structural_interaction_variant	MICAL3
structural_interaction_variant	MICAL3
structural_interaction_variant	MICAL3
structural_interaction_variant	MICAL3
structural_interaction_variant	MICAL3
structural_interaction_variant	MICAL3
structural_interaction_variant	TUBA8
structural_interaction_variant	TUBA8
stop_gained	PRODH
structural_interaction_variant	DGCR2
structural_interaction_variant	DGCR2
structural_interaction_variant	DGCR2
structural_interaction_variant	DGCR2
structural_interaction_variant	TSSK2
structural_interaction_variant	TSSK2
structural_interaction_variant	TSSK2
structural_interaction_variant	DGCR14
structural_interaction_variant	DGCR14
structural_interaction_variant	HIRA
structural_interaction_variant	HIRA
missense_variant&splice_region_variant	UFD1L
structural_interaction_variant	UFD1L
structural_interaction_variant	UFD1L
structural_interaction_variant	UFD1L
frameshift_variant	CDC45
structural_interaction_variant	CDC45
structural_interaction_variant	CDC45
structural_interaction_variant	CDC45

structural_interaction_variant	ARVCF
structural_interaction_variant	ARVCF
structural_interaction_variant	DGCR8
structural_interaction_variant	DGCR8
structural_interaction_variant	TRMT2A
frameshift_variant	TRMT2A
structural_interaction_variant	ZDHHC8
structural_interaction_variant	ZDHHC8
structural_interaction_variant	ZDHHC8
structural_interaction_variant	DGCR6L
structural_interaction_variant	ZNF74
structural_interaction_variant	ZNF74
structural_interaction_variant	SCARF2
structural_interaction_variant	KLHL22
structural_interaction_variant	MED15
missense_variant&splice_region_variant	PI4KA
structural_interaction_variant	SERPIND1
structural_interaction_variant	SERPIND1
structural_interaction_variant	SERPIND1
structural_interaction_variant	PI4KA
structural_interaction_variant	CRKL
structural_interaction_variant	P2RX6
structural_interaction_variant	P2RX6
structural_interaction_variant	SLC7A4
structural_interaction_variant	HIC2
structural_interaction_variant	HIC2
structural_interaction_variant	HIC2
structural_interaction_variant	HIC2
structural_interaction_variant	HIC2
structural_interaction_variant	CCDC116
structural_interaction_variant	CCDC116
structural_interaction_variant	CCDC116
structural_interaction_variant	CCDC116
frameshift_variant	CCDC116
structural_interaction_variant	PPIL2
structural_interaction_variant	PPIL2
structural_interaction_variant	PPIL2
structural_interaction_variant	MAPK1
structural_interaction_variant	TOP3B
structural_interaction_variant	TOP3B
structural_interaction_variant	TOP3B
structural_interaction_variant	TOP3B
structural_interaction_variant	VPREB1
structural_interaction_variant	VPREB1
structural_interaction_variant	ZNF280B
structural_interaction_variant	ZNF280A
structural_interaction_variant	ZNF280A
structural_interaction_variant	ZNF280A

structural_interaction_variant	ZNF280A
structural_interaction_variant	ZNF280A
structural_interaction_variant	PRAME
structural_interaction_variant	PRAME
structural_interaction_variant	PRAME
structural_interaction_variant	IGLJ1
stop_gained	RTDR1
structural_interaction_variant	RAB36
structural_interaction_variant	RAB36
frameshift_variant	RAB36
structural_interaction_variant	BCR
structural_interaction_variant	BCR
structural_interaction_variant	BCR
structural_interaction_variant	BCR
structural_interaction_variant	C22orf43
structural_interaction_variant	C22orf43
structural_interaction_variant	VPREB3
structural_interaction_variant	VPREB3
structural_interaction_variant	C22orf15
structural_interaction_variant	C22orf15
structural_interaction_variant	C22orf15
stop_gained	AP000349.1
structural_interaction_variant	DERL3
structural_interaction_variant	SLC2A11
splice_acceptor_variant&intron_variant	AP000350.10
splice_acceptor_variant&intron_variant	SLC2A11
structural_interaction_variant	SLC2A11
disruptive_inframe_deletion	SLC2A11
structural_interaction_variant	CABIN1
structural_interaction_variant	CABIN1
structural_interaction_variant	CABIN1
structural_interaction_variant	CABIN1
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structural_interaction_variant	CABIN1
structural_interaction_variant	CABIN1
structural_interaction_variant	CABIN1
structural_interaction_variant	SUSD2
structural_interaction_variant	SUSD2
structural_interaction_variant	GGT5
structural_interaction_variant	GGT5
structural_interaction_variant	SPECC1L
structural_interaction_variant	SPECC1L
structural_interaction_variant	SPECC1L
structural_interaction_variant	SPECC1L

structural_interaction_variant	GUCD1
structural_interaction_variant	PIWIL3
structural_interaction_variant	PIWIL3
structural_interaction_variant	PIWIL3
structural_interaction_variant	PIWIL3
structural_interaction_variant	SGSM1
structural_interaction_variant	SGSM1
structural_interaction_variant	SGSM1
structural_interaction_variant	SGSM1
structural_interaction_variant	SGSM1
structural_interaction_variant	SGSM1
splice_acceptor_variant&intron_variant	SGSM1
structural_interaction_variant	SGSM1
structural_interaction_variant	SGSM1
structural_interaction_variant	SGSM1
structural_interaction_variant	SGSM1
structural_interaction_variant	SGSM1
structural_interaction_variant	TMEM211
structural_interaction_variant	KIAA1671
structural_interaction_variant	KIAA1671
structural_interaction_variant	LRP5L
structural_interaction_variant	ADRBK2
structural_interaction_variant	ADRBK2
structural_interaction_variant	ADRBK2
structural_interaction_variant	MYO18B
stop_gained	MYO18B
structural_interaction_variant	SEZ6L
structural_interaction_variant	SEZ6L
structural_interaction_variant	SEZ6L
structural_interaction_variant	SEZ6L
structural_interaction_variant	ASPHD2
structural_interaction_variant	ASPHD2
structural_interaction_variant	ASPHD2
structural_interaction_variant	ASPHD2
missense_variant&splice_region_variant	SRRD
splice_donor_variant&splice_region_variant&intron_	SRRD
structural_interaction_variant	TFIP11
structural_interaction_variant	TFIP11
frameshift_variant	TFIP11
structural_interaction_variant	MN1
structural_interaction_variant	MN1
structural_interaction_variant	MN1
structural_interaction_variant	MN1
structural_interaction_variant	PITPNB
structural_interaction_variant	PITPNB
structural_interaction_variant	TTC28
structural_interaction_variant	TTC28
structural_interaction_variant	TTC28

structural_interaction_variant	TTC28
structural_interaction_variant	TTC28
structural_interaction_variant	TTC28
structural_interaction_variant	TTC28
structural_interaction_variant	TTC28
structural_interaction_variant	CCDC117
structural_interaction_variant	XBP1
structural_interaction_variant	ZNRF3
structural_interaction_variant	ZNRF3
stop_gained	C22orf31
structural_interaction_variant	EMID1
structural_interaction_variant	EMID1
structural_interaction_variant	EMID1
structural_interaction_variant	EWSR1
structural_interaction_variant	AP1B1
structural_interaction_variant	AP1B1
structural_interaction_variant	AP1B1
stop_gained	NEFH
structural_interaction_variant	NIPSNAP1
missense_variant&splice_region_variant	ZMAT5
structural_interaction_variant	ASCC2
structural_interaction_variant	ASCC2
structural_interaction_variant	MTMR3
structural_interaction_variant	MTMR3
structural_interaction_variant	MTMR3
structural_interaction_variant	MTMR3
structural_interaction_variant	MTMR3
structural_interaction_variant	HORMAD2
structural_interaction_variant	HORMAD2
structural_interaction_variant	RP1-130H16.18
frameshift_variant	RP1-130H16.18
structural_interaction_variant	RP1-130H16.18
structural_interaction_variant	TBC1D10A
structural_interaction_variant	TBC1D10A
structural_interaction_variant	TBC1D10A
structural_interaction_variant	TBC1D10A
structural_interaction_variant	TBC1D10A
structural_interaction_variant	CCDC157
structural_interaction_variant	CCDC157
structural_interaction_variant	CCDC157
structural_interaction_variant	CCDC157
structural_interaction_variant	RNF215
structural_interaction_variant	MTFP1
structural_interaction_variant	SEC14L3
splice_donor_variant&intron_variant	SEC14L3
missense_variant&splice_region_variant	SEC14L4
splice_acceptor_variant&intron_variant	SEC14L4
structural_interaction_variant	SEC14L4

structural_interaction_variant	PES1
structural_interaction_variant	PES1
structural_interaction_variant	TCN2
structural_interaction_variant	SLC35E4
structural_interaction_variant	SLC35E4
structural_interaction_variant	OSBP2
structural_interaction_variant	OSBP2
structural_interaction_variant	OSBP2
splice_donor_variant&intron_variant	OSBP2
structural_interaction_variant	OSBP2
structural_interaction_variant	OSBP2
structural_interaction_variant	SMTN
structural_interaction_variant	SMTN
structural_interaction_variant	INPP5J
structural_interaction_variant	INPP5J
structural_interaction_variant	PLA2G3
structural_interaction_variant	RNF185
structural_interaction_variant	LIMK2
structural_interaction_variant	PIK3IP1
structural_interaction_variant	PIK3IP1
structural_interaction_variant	DRG1
structural_interaction_variant	EIF4ENIF1
structural_interaction_variant	EIF4ENIF1
structural_interaction_variant	EIF4ENIF1
structural_interaction_variant	EIF4ENIF1
structural_interaction_variant	EIF4ENIF1
structural_interaction_variant	EIF4ENIF1
structural_interaction_variant	EIF4ENIF1
structural_interaction_variant	EIF4ENIF1
structural_interaction_variant	EIF4ENIF1
structural_interaction_variant	EIF4ENIF1
stop_gained&splice_region_variant	SFI1
splice_donor_variant&intron_variant	SFI1
structural_interaction_variant	SFI1
structural_interaction_variant	PISD
splice_acceptor_variant&intron_variant	PISD
structural_interaction_variant	PRR14L
structural_interaction_variant	PRR14L
structural_interaction_variant	PRR14L
structural_interaction_variant	PRR14L
structural_interaction_variant	PRR14L
structural_interaction_variant	PRR14L
structural_interaction_variant	DEPDC5
structural_interaction_variant	DEPDC5
structural_interaction_variant	SLC5A1
structural_interaction_variant	SLC5A1
structural_interaction_variant	C22orf42
structural_interaction_variant	C22orf42

frameshift_variant	SLC5A4
structural_interaction_variant	SLC5A4
missense_variant&splice_region_variant	SLC5A4
structural_interaction_variant	RTCB
structural_interaction_variant	BPIFC
structural_interaction_variant	BPIFC
structural_interaction_variant	BPIFC
structural_interaction_variant	BPIFC
structural_interaction_variant	BPIFC
stop_gained	FBXO7
structural_interaction_variant	FBXO7
structural_interaction_variant	SYN3
splice_donor_variant&intron_variant	LARGE
structural_interaction_variant	ISX
frameshift_variant	ISX
structural_interaction_variant	HMGXB4
structural_interaction_variant	HMGXB4
structural_interaction_variant	TOM1
structural_interaction_variant	TOM1
stop_gained	MCM5
structural_interaction_variant	MCM5
structural_interaction_variant	RASD2
structural_interaction_variant	APOL6
structural_interaction_variant	APOL6
structural_interaction_variant	APOL6
structural_interaction_variant	APOL6
structural_interaction_variant	APOL5
structural_interaction_variant	APOL5
structural_interaction_variant	APOL4
structural_interaction_variant	APOL4
splice_acceptor_variant&intron_variant	APOL4
structural_interaction_variant	APOL2
structural_interaction_variant	APOL2
frameshift_variant	APOL2
structural_interaction_variant	APOL1
structural_interaction_variant	APOL1
structural_interaction_variant	APOL1
structural_interaction_variant	APOL1
structural_interaction_variant	MYH9
structural_interaction_variant	MYH9
structural_interaction_variant	MYH9
structural_interaction_variant	MYH9
structural_interaction_variant	TXN2
structural_interaction_variant	FOXRED2
structural_interaction_variant	EIF3D
structural_interaction_variant	EIF3D
structural_interaction_variant	EIF3D
structural_interaction_variant	EIF3D

structural_interaction_variant	CACNG2
structural_interaction_variant	IFT27
structural_interaction_variant	PVALB
structural_interaction_variant	NCF4
structural_interaction_variant	TST
missense_variant&splice_region_variant	MPST
structural_interaction_variant	MPST
structural_interaction_variant	SSTR3
structural_interaction_variant	SSTR3
structural_interaction_variant	SSTR3
structural_interaction_variant	SSTR3
structural_interaction_variant	SSTR3
structural_interaction_variant	SSTR3
structural_interaction_variant	CYTH4
structural_interaction_variant	CYTH4
structural_interaction_variant	CYTH4
structural_interaction_variant	ELFN2
structural_interaction_variant	ELFN2
structural_interaction_variant	ELFN2
structural_interaction_variant	ELFN2
structural_interaction_variant	ELFN2
structural_interaction_variant	ELFN2
structural_interaction_variant	ELFN2
structural_interaction_variant	MFNG
structural_interaction_variant	MFNG
structural_interaction_variant	MFNG
structural_interaction_variant	MFNG
structural_interaction_variant	MFNG
structural_interaction_variant	CARD10
structural_interaction_variant	CARD10
structural_interaction_variant	CARD10
structural_interaction_variant	GGA1
structural_interaction_variant	SH3BP1
structural_interaction_variant	LGALS1
structural_interaction_variant	NOL12
structural_interaction_variant	TRIOBP
structural_interaction_variant	GCAT
structural_interaction_variant	GCAT
structural_interaction_variant	GCAT
structural_interaction_variant	GCAT
structural_interaction_variant	GCAT
structural_interaction_variant	GALR3
structural_interaction_variant	ANKRD54
structural_interaction_variant	EIF3L
structural_interaction_variant	MICALL1
structural_interaction_variant	MICALL1
stop_gained	POLR2F
structural_interaction_variant	POLR2F

structural_interaction_variant	PICK1
structural_interaction_variant	PICK1
frameshift_variant	SLC16A8
structural_interaction_variant	BAIAP2L2
structural_interaction_variant	TMEM184B
structural_interaction_variant	CSNK1E
structural_interaction_variant	KDELR3
structural_interaction_variant	DDX17
structural_interaction_variant	DDX17
structural_interaction_variant	DMC1
structural_interaction_variant	FAM227A
structural_interaction_variant	FAM227A
structural_interaction_variant	FAM227A
structural_interaction_variant	TOMM22
structural_interaction_variant	JOSD1
structural_interaction_variant	JOSD1
missense_variant&splice_region_variant	JOSD1
structural_interaction_variant	GTPBP1
structural_interaction_variant	SUN2
structural_interaction_variant	SUN2
structural_interaction_variant	SUN2
structural_interaction_variant	SUN2
structural_interaction_variant	DNAL4
structural_interaction_variant	DNAL4
structural_interaction_variant	NPTXR
structural_interaction_variant	NPTXR
structural_interaction_variant	APOBEC3B
stop_gained	APOBEC3B
structural_interaction_variant	APOBEC3D
structural_interaction_variant	APOBEC3D
structural_interaction_variant	APOBEC3F
structural_interaction_variant	APOBEC3G
structural_interaction_variant	APOBEC3G
structural_interaction_variant	APOBEC3G
structural_interaction_variant	APOBEC3H
structural_interaction_variant	PDGFB
frameshift_variant	SYNGR1
structural_interaction_variant	SYNGR1
frameshift_variant	TAB1
structural_interaction_variant	TAB1
structural_interaction_variant	TAB1
structural_interaction_variant	MIEF1
structural_interaction_variant	MIEF1
structural_interaction_variant	MIEF1
structural_interaction_variant	MIEF1
structural_interaction_variant	MIEF1
disruptive_inframe_deletion	RPS19BP1
structural_interaction_variant	CACNA1I

structural_interaction_variant	CACNA1I
structural_interaction_variant	CACNA1I
structural_interaction_variant	CACNA1I
structural_interaction_variant	CACNA1I
structural_interaction_variant	CACNA1I
structural_interaction_variant	FAM83F
structural_interaction_variant	FAM83F
structural_interaction_variant	TNRC6B
structural_interaction_variant	TNRC6B
structural_interaction_variant	TNRC6B
structural_interaction_variant	TNRC6B
structural_interaction_variant	TNRC6B
structural_interaction_variant	TNRC6B
structural_interaction_variant	MKL1
frameshift_variant	MKL1
structural_interaction_variant	MKL1
structural_interaction_variant	MKL1
structural_interaction_variant	MKL1
structural_interaction_variant	MCHR1
stop_gained	MCHR1
structural_interaction_variant	SLC25A17
structural_interaction_variant	SLC25A17
stop_gained	DNAJB7
structural_interaction_variant	DNAJB7
structural_interaction_variant	DNAJB7
conservative_inframe_insertion	DNAJB7
structural_interaction_variant	DNAJB7
structural_interaction_variant	DNAJB7
structural_interaction_variant	EP300
structural_interaction_variant	L3MBTL2
structural_interaction_variant	L3MBTL2
structural_interaction_variant	L3MBTL2
structural_interaction_variant	CHADL
stop_gained	CHADL
structural_interaction_variant	RANGAP1
structural_interaction_variant	RANGAP1
structural_interaction_variant	RANGAP1
structural_interaction_variant	RANGAP1
structural_interaction_variant	RANGAP1
structural_interaction_variant	ZC3H7B
structural_interaction_variant	ZC3H7B
structural_interaction_variant	ZC3H7B
structural_interaction_variant	ZC3H7B
structural_interaction_variant	ZC3H7B
structural_interaction_variant	ZC3H7B
structural_interaction_variant	CSDC2
structural_interaction_variant	PMM1
structural_interaction_variant	NHP2L1

structural_interaction_variant	CCDC134
structural_interaction_variant	SREBF2
structural_interaction_variant	SREBF2
structural_interaction_variant	SREBF2
missense_variant&splice_region_variant	SREBF2
structural_interaction_variant	SREBF2
structural_interaction_variant	SREBF2
structural_interaction_variant	SREBF2
structural_interaction_variant	TNFRSF13C
structural_interaction_variant	CENPM
disruptive_inframe_deletion	CENPM
structural_interaction_variant	SEPT3
structural_interaction_variant	WBP2NL
structural_interaction_variant	WBP2NL
structural_interaction_variant	NAGA
structural_interaction_variant	NAGA
structural_interaction_variant	NAGA
stop_gained	NAGA
structural_interaction_variant	FAM109B
structural_interaction_variant	FAM109B
structural_interaction_variant	FAM109B
structural_interaction_variant	CYP2D6
conservative_inframe_insertion	CYP2D7P
structural_interaction_variant	TCF20
structural_interaction_variant	NFAM1
structural_interaction_variant	RRP7A
structural_interaction_variant	POLDIP3
structural_interaction_variant	POLDIP3
structural_interaction_variant	POLDIP3
structural_interaction_variant	POLDIP3
structural_interaction_variant	POLDIP3
structural_interaction_variant	POLDIP3
structural_interaction_variant	POLDIP3
missense_variant&splice_region_variant	POLDIP3
missense_variant&splice_region_variant	POLDIP3
structural_interaction_variant	ARFGAP3
frameshift_variant&splice_region_variant	ARFGAP3
structural_interaction_variant	ARFGAP3
structural_interaction_variant	ARFGAP3
structural_interaction_variant	PACSIN2
stop_gained	PACSIN2
structural_interaction_variant	MCAT
structural_interaction_variant	MCAT
structural_interaction_variant	TTLL12
structural_interaction_variant	TTLL12
structural_interaction_variant	TTLL12
structural_interaction_variant	TTLL12
structural_interaction_variant	SCUBE1

structural_interaction_variant	SCUBE1
structural_interaction_variant	MPPED1
structural_interaction_variant	MPPED1
structural_interaction_variant	MPPED1
structural_interaction_variant	EFCAB6
stop_gained	EFCAB6
missense_variant&splice_region_variant	EFCAB6
structural_interaction_variant	EFCAB6
structural_interaction_variant	EFCAB6
splice_donor_variant&intron_variant	EFCAB6
structural_interaction_variant	PNPLA5
structural_interaction_variant	PNPLA5
structural_interaction_variant	PNPLA3
structural_interaction_variant	PNPLA3
structural_interaction_variant	PNPLA3
structural_interaction_variant	PNPLA3
structural_interaction_variant	SAMM50
structural_interaction_variant	SAMM50
structural_interaction_variant	PARVB
structural_interaction_variant	KIAA1644
structural_interaction_variant	KIAA1644
structural_interaction_variant	KIAA1644
structural_interaction_variant	KIAA1644
structural_interaction_variant	LDOC1L
structural_interaction_variant	ARHGAP8
structural_interaction_variant	ARHGAP8
structural_interaction_variant	ARHGAP8
structural_interaction_variant	ARHGAP8
structural_interaction_variant	ARHGAP8
structural_interaction_variant	PHF21B
structural_interaction_variant	PHF21B
structural_interaction_variant	KIAA0930
structural_interaction_variant	UPK3A
structural_interaction_variant	FAM118A
structural_interaction_variant	FAM118A
structural_interaction_variant	FAM118A
splice_acceptor_variant&intron_variant	SMC1B
structural_interaction_variant	SMC1B
structural_interaction_variant	RIBC2
structural_interaction_variant	RIBC2
structural_interaction_variant	RIBC2
structural_interaction_variant	FBLN1
structural_interaction_variant	FBLN1
structural_interaction_variant	FBLN1
structural_interaction_variant	FBLN1
structural_interaction_variant	FBLN1
structural_interaction_variant	ATXN10
structural_interaction_variant	ATXN10

structural_interaction_variant	WNT7B
structural_interaction_variant	PKDREJ
structural_interaction_variant	PKDREJ
frameshift_variant	PKDREJ
structural_interaction_variant	TTC38
structural_interaction_variant	TTC38
structural_interaction_variant	TTC38
structural_interaction_variant	TTC38
frameshift_variant	TTC38
structural_interaction_variant	TTC38
structural_interaction_variant	TTC38
frameshift_variant	TTC38
structural_interaction_variant	TTC38
structural_interaction_variant	GTSE1
frameshift_variant&stop_gained	TRMU
structural_interaction_variant	CELSR1
structural_interaction_variant	CELSR1
structural_interaction_variant	CELSR1
structural_interaction_variant	CELSR1
structural_interaction_variant	CELSR1
structural_interaction_variant	CELSR1
structural_interaction_variant	CELSR1
structural_interaction_variant	CELSR1
structural_interaction_variant	CELSR1
structural_interaction_variant	CELSR1
structural_interaction_variant	GRAMD4
structural_interaction_variant	BRD1
structural_interaction_variant	BRD1
structural_interaction_variant	BRD1
structural_interaction_variant	ZBED4
structural_interaction_variant	ZBED4
structural_interaction_variant	ZBED4
structural_interaction_variant	ZBED4
structural_interaction_variant	ZBED4
structural_interaction_variant	ZBED4
structural_interaction_variant	ZBED4
structural_interaction_variant	ALG12
structural_interaction_variant	ALG12
structural_interaction_variant	CRELD2
structural_interaction_variant	CRELD2
structural_interaction_variant	PIM3
structural_interaction_variant	IL17REL
structural_interaction_variant	IL17REL
structural_interaction_variant	IL17REL
structural_interaction_variant	IL17REL
structural_interaction_variant	TTLL8
structural_interaction_variant	TTLL8
structural_interaction_variant	TTLL8

stop_gained	TTLL8
structural_interaction_variant	TTLL8
structural_interaction_variant	TTLL8
stop_gained	TTLL8
structural_interaction_variant	MOV10L1
structural_interaction_variant	MOV10L1
frameshift_variant	MOV10L1
structural_interaction_variant	MOV10L1
splice_donor_variant&intron_variant	MOV10L1
missense_variant&splice_region_variant	MOV10L1
structural_interaction_variant	MOV10L1
frameshift_variant	PANX2
frameshift_variant	TRABD
structural_interaction_variant	SELO
structural_interaction_variant	SELO
structural_interaction_variant	SELO
splice_acceptor_variant&intron_variant	SELO
structural_interaction_variant	SELO
frameshift_variant	SELO
structural_interaction_variant	HDAC10
structural_interaction_variant	HDAC10
structural_interaction_variant	HDAC10
structural_interaction_variant	HDAC10
missense_variant&splice_region_variant	MAPK12
structural_interaction_variant	MAPK11
structural_interaction_variant	MAPK11
structural_interaction_variant	PLXNB2
structural_interaction_variant	PLXNB2
structural_interaction_variant	PLXNB2
structural_interaction_variant	DENND6B
structural_interaction_variant	PPP6R2
structural_interaction_variant	PPP6R2
structural_interaction_variant	SBF1
frameshift_variant&splice_acceptor_variant&splice_r	MIOX
structural_interaction_variant	LMF2
frameshift_variant	LMF2
structural_interaction_variant	NCAPH2
structural_interaction_variant	NCAPH2
frameshift_variant	SCO2
structural_interaction_variant	TYMP
structural_interaction_variant	KLHDC7B
structural_interaction_variant	KLHDC7B
frameshift_variant	KLHDC7B
stop_gained	CPT1B
structural_interaction_variant	CHKB
structural_interaction_variant	MAPK8IP2
missense_variant&splice_region_variant	SHANK3
structural_interaction_variant	SHANK3

splice_acceptor_variant&intron_variant	GYG2
structural_interaction_variant	GYG2
structural_interaction_variant	ARSD
structural_interaction_variant	ARSD
stop_gained	ARSD
structural_interaction_variant	ARSH
structural_interaction_variant	ARSF
stop_gained	MXRA5
structural_interaction_variant	MXRA5
structural_interaction_variant	MXRA5
structural_interaction_variant	MXRA5
structural_interaction_variant	MXRA5
structural_interaction_variant	PRKX
structural_interaction_variant	HDHD1
structural_interaction_variant	HDHD1
stop_gained	STS
structural_interaction_variant	STS
structural_interaction_variant	PNPLA4
structural_interaction_variant	FAM9A
structural_interaction_variant	GPR143
structural_interaction_variant	SHROOM2
structural_interaction_variant	SHROOM2
structural_interaction_variant	SHROOM2
structural_interaction_variant	SHROOM2
disruptive_inframe_deletion	WWC3
structural_interaction_variant	WWC3
structural_interaction_variant	WWC3
structural_interaction_variant	CLCN4
structural_interaction_variant	FRMPD4
structural_interaction_variant	FRMPD4
structural_interaction_variant	TLR7
structural_interaction_variant	TLR7
structural_interaction_variant	TLR8
structural_interaction_variant	TLR8
structural_interaction_variant	EGFL6
structural_interaction_variant	EGFL6
structural_interaction_variant	TCEANC
structural_interaction_variant	TCEANC
stop_gained	TCEANC
structural_interaction_variant	OFD1
structural_interaction_variant	ASB11
stop_gained	FIGF
structural_interaction_variant	FIGF
structural_interaction_variant	ACE2
structural_interaction_variant	ACE2
structural_interaction_variant	ACE2
structural_interaction_variant	ACE2
structural_interaction_variant	ZRSR2

structural_interaction_variant	ZRSR2
structural_interaction_variant	GRPR
structural_interaction_variant	GRPR
structural_interaction_variant	GRPR
frameshift_variant	S100G
structural_interaction_variant	S100G
structural_interaction_variant	TXLNG
structural_interaction_variant	TXLNG
structural_interaction_variant	REPS2
structural_interaction_variant	NHS
structural_interaction_variant	SCML1
structural_interaction_variant	RAI2
structural_interaction_variant	RAI2
structural_interaction_variant	BEND2
structural_interaction_variant	CDKL5
structural_interaction_variant	PHKA2
structural_interaction_variant	GPR64
structural_interaction_variant	GPR64
structural_interaction_variant	GPR64
structural_interaction_variant	SH3KBP1
structural_interaction_variant	CXorf23
structural_interaction_variant	CXorf23
structural_interaction_variant	CXorf23
structural_interaction_variant	MAP7D2
structural_interaction_variant	MAP7D2
structural_interaction_variant	YY2
structural_interaction_variant	YY2
structural_interaction_variant	ZNF645
structural_interaction_variant	ZNF645
structural_interaction_variant	ZNF645
structural_interaction_variant	DDX53
structural_interaction_variant	DDX53
stop_gained	DDX53
structural_interaction_variant	PTCHD1
structural_interaction_variant	PTCHD1
structural_interaction_variant	ACOT9
structural_interaction_variant	SAT1
structural_interaction_variant	SAT1
structural_interaction_variant	SAT1
structural_interaction_variant	CXorf58
structural_interaction_variant	ZFX
structural_interaction_variant	PDK3
structural_interaction_variant	POLA1
structural_interaction_variant	POLA1
structural_interaction_variant	POLA1
stop_gained	MAGEB18
frameshift_variant	MAGEB18
structural_interaction_variant	MAGEB18

structural_interaction_variant	MAGEB6
structural_interaction_variant	MAGEB6
structural_interaction_variant	MAGEB5
structural_interaction_variant	MAGEB10
structural_interaction_variant	MAGEB2
structural_interaction_variant	MAGEB2
structural_interaction_variant	MAGEB2
structural_interaction_variant	MAGEB2
structural_interaction_variant	MAGEB4
structural_interaction_variant	MAGEB4
stop_gained	MAGEB4
structural_interaction_variant	MAGEB1
structural_interaction_variant	MAGEB1
structural_interaction_variant	FAM47A
structural_interaction_variant	FAM47A
structural_interaction_variant	FAM47A
structural_interaction_variant	FAM47A
structural_interaction_variant	FAM47A
structural_interaction_variant	FAM47A
structural_interaction_variant	FAM47A
structural_interaction_variant	FAM47A
structural_interaction_variant	TMEM47
structural_interaction_variant	FAM47B
structural_interaction_variant	FAM47B
structural_interaction_variant	FAM47B
structural_interaction_variant	FAM47B
stop_gained	MAGEB16
structural_interaction_variant	MAGEB16
structural_interaction_variant	CHDC2
structural_interaction_variant	CHDC2
structural_interaction_variant	CXorf30
structural_interaction_variant	CXorf30
structural_interaction_variant	CXorf30
structural_interaction_variant	FAM47C
structural_interaction_variant	FAM47C
structural_interaction_variant	FAM47C
structural_interaction_variant	FAM47C
structural_interaction_variant	PRRG1
structural_interaction_variant	CYBB
structural_interaction_variant	CYBB
structural_interaction_variant	CXorf27
structural_interaction_variant	SYTL5
structural_interaction_variant	SYTL5
structural_interaction_variant	SYTL5
structural_interaction_variant	SYTL5
structural_interaction_variant	SRPX
structural_interaction_variant	SRPX
structural_interaction_variant	ATP6AP2

structural_interaction_variant	ATP6AP2
structural_interaction_variant	CXorf38
structural_interaction_variant	MED14
structural_interaction_variant	GPR34
structural_interaction_variant	MAOB
stop_gained	MAOB
structural_interaction_variant	EFHC2
structural_interaction_variant	EFHC2
structural_interaction_variant	ZNF674
structural_interaction_variant	SLC9A7
structural_interaction_variant	JADE3
structural_interaction_variant	RGN
structural_interaction_variant	RGN
structural_interaction_variant	RBM10
structural_interaction_variant	RBM10
structural_interaction_variant	UBA1
structural_interaction_variant	CDK16
stop_gained	USP11
structural_interaction_variant	USP11
structural_interaction_variant	ZNF157
structural_interaction_variant	ZNF157
structural_interaction_variant	ZNF41
structural_interaction_variant	ZNF41
structural_interaction_variant	ZNF41
structural_interaction_variant	TIMP1
structural_interaction_variant	UXT
structural_interaction_variant	ZNF81
structural_interaction_variant	ZNF182
structural_interaction_variant	ZNF630
structural_interaction_variant	SLC38A5
structural_interaction_variant	RBM3
structural_interaction_variant	RBM3
structural_interaction_variant	RBM3
structural_interaction_variant	HDAC6
structural_interaction_variant	HDAC6
structural_interaction_variant	HDAC6
structural_interaction_variant	HDAC6
structural_interaction_variant	HDAC6
structural_interaction_variant	PQBP1
structural_interaction_variant	PIM2
structural_interaction_variant	PIM2
structural_interaction_variant	PIM2
disruptive_inframe_insertion	OTUD5
structural_interaction_variant	GRIPAP1
structural_interaction_variant	GRIPAP1
missense_variant&splice_region_variant	TFE3
structural_interaction_variant	MAGIX
stop_gained	PRICKLE3

structural_interaction_variant	PRICKLE3
structural_interaction_variant	PRICKLE3
structural_interaction_variant	SYP
structural_interaction_variant	PPP1R3F
structural_interaction_variant	PPP1R3F
structural_interaction_variant	USP27X
structural_interaction_variant	USP27X
structural_interaction_variant	AKAP4
structural_interaction_variant	AKAP4
structural_interaction_variant	AKAP4
structural_interaction_variant	CCNB3
structural_interaction_variant	CCNB3
structural_interaction_variant	CCNB3
structural_interaction_variant	SHROOM4
stop_gained	BMP15
structural_interaction_variant	GSPT2
frameshift_variant	GSPT2
structural_interaction_variant	GPR173
structural_interaction_variant	TSPYL2
structural_interaction_variant	TSPYL2
frameshift_variant	IQSEC2
structural_interaction_variant	HUWE1
structural_interaction_variant	HUWE1
structural_interaction_variant	WNK3
structural_interaction_variant	WNK3
stop_gained	ITIH6
structural_interaction_variant	TRO
structural_interaction_variant	TRO
structural_interaction_variant	TRO
structural_interaction_variant	TRO
structural_interaction_variant	TRO
structural_interaction_variant	TRO
stop_gained	PFKFB1
structural_interaction_variant	ALAS2
stop_gained	FAM104B
structural_interaction_variant	MAGEH1
structural_interaction_variant	KLF8
structural_interaction_variant	KLF8
structural_interaction_variant	SPIN3
frameshift_variant	FAAH2
stop_gained	FAAH2
structural_interaction_variant	FAAH2
structural_interaction_variant	FAAH2
stop_lost	ZXDA
structural_interaction_variant	AMER1
structural_interaction_variant	MTMR8
structural_interaction_variant	MTMR8
splice_donor_variant&intron_variant	MTMR8

structural_interaction_variant	MTMR8
structural_interaction_variant	ZC3H12B
structural_interaction_variant	ZC3H12B
structural_interaction_variant	ZC3H12B
structural_interaction_variant	ZC3H12B
structural_interaction_variant	ZC3H12B
structural_interaction_variant	MSN
splice_acceptor_variant&intron_variant	VSIG4
structural_interaction_variant	VSIG4
structural_interaction_variant	VSIG4
structural_interaction_variant	HEPH
structural_interaction_variant	HEPH
structural_interaction_variant	HEPH
structural_interaction_variant	EDA2R
structural_interaction_variant	YIPF6
structural_interaction_variant	STARD8
stop_gained	STARD8
structural_interaction_variant	STARD8
structural_interaction_variant	STARD8
structural_interaction_variant	FAM155B
structural_interaction_variant	FAM155B
structural_interaction_variant	FAM155B
structural_interaction_variant	DGAT2L6
stop_gained	DGAT2L6
frameshift_variant	DGAT2L6
structural_interaction_variant	AWAT1
structural_interaction_variant	AWAT1
structural_interaction_variant	AWAT1
structural_interaction_variant	P2RY4
structural_interaction_variant	ARR3
structural_interaction_variant	ARR3
structural_interaction_variant	ARR3
structural_interaction_variant	RAB41
structural_interaction_variant	DLG3
structural_interaction_variant	SNX12
structural_interaction_variant	MED12
structural_interaction_variant	GJB1
splice_donor_variant&intron_variant	ZMYM3
structural_interaction_variant	TAF1
structural_interaction_variant	TAF1
structural_interaction_variant	ACRC
structural_interaction_variant	RGAG4
structural_interaction_variant	NHSL2
structural_interaction_variant	NHSL2
structural_interaction_variant	NHSL2
frameshift_variant	ERCC6L
stop_gained	ERCC6L
structural_interaction_variant	CITED1

structural_interaction_variant	PHKA1
structural_interaction_variant	CDX4
structural_interaction_variant	CDX4
structural_interaction_variant	KIAA2022
structural_interaction_variant	PBDC1
structural_interaction_variant	MAGEE1
structural_interaction_variant	ATP7A
structural_interaction_variant	TAF9B
structural_interaction_variant	CYSLTR1
stop_gained	CYSLTR1
structural_interaction_variant	GPR174
structural_interaction_variant	TBX22
structural_interaction_variant	TBX22
structural_interaction_variant	TBX22
structural_interaction_variant	FAM46D
structural_interaction_variant	RPS6KA6
structural_interaction_variant	HDX
stop_gained	HDX
structural_interaction_variant	APOOL
structural_interaction_variant	APOOL
structural_interaction_variant	POF1B
structural_interaction_variant	POF1B
structural_interaction_variant	KLHL4
structural_interaction_variant	CPXCR1
structural_interaction_variant	PABPC5
structural_interaction_variant	PABPC5
structural_interaction_variant	PCDH11X
structural_interaction_variant	NAP1L3
structural_interaction_variant	DIAPH2
structural_interaction_variant	DIAPH2
structural_interaction_variant	DIAPH2
structural_interaction_variant	TNMD
structural_interaction_variant	TSPAN6
structural_interaction_variant	TSPAN6
structural_interaction_variant	SYTL4
structural_interaction_variant	SYTL4
structural_interaction_variant	SYTL4
structural_interaction_variant	SYTL4
structural_interaction_variant	CSTF2
structural_interaction_variant	CENPI
structural_interaction_variant	CENPI
structural_interaction_variant	DRP2
structural_interaction_variant	TAF7L
structural_interaction_variant	TAF7L
structural_interaction_variant	RPL36A-HNRNPH2
structural_interaction_variant	ARMCX4
structural_interaction_variant	ARMCX1
structural_interaction_variant	ARMCX6

structural_interaction_variant	ARMCX6
structural_interaction_variant	ARMCX3
structural_interaction_variant	ARMCX3
structural_interaction_variant	ARMCX3
structural_interaction_variant	ARMCX2
structural_interaction_variant	ARMCX2
structural_interaction_variant	ZMAT1
structural_interaction_variant	GPRASP1
structural_interaction_variant	GPRASP1
structural_interaction_variant	GPRASP1
structural_interaction_variant	GPRASP1
structural_interaction_variant	GPRASP1
structural_interaction_variant	GPRASP2
structural_interaction_variant	GPRASP2
structural_interaction_variant	BHLHB9
structural_interaction_variant	TCEAL5
structural_interaction_variant	BEX2
structural_interaction_variant	TCEAL7
structural_interaction_variant	TCEAL7
structural_interaction_variant	WBP5
structural_interaction_variant	MORF4L2
structural_interaction_variant	GLRA4
structural_interaction_variant	GLRA4
stop_gained	H2BFWT
stop_gained	H2BFWT
structural_interaction_variant	ZCCHC18
structural_interaction_variant	ZCCHC18
structural_interaction_variant	TEX13A
structural_interaction_variant	IL1RAPL2
structural_interaction_variant	IL1RAPL2
structural_interaction_variant	NRK
structural_interaction_variant	NRK
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structural_interaction_variant	NRK
structural_interaction_variant	NRK
structural_interaction_variant	NRK
structural_interaction_variant	SERPINA7
structural_interaction_variant	SERPINA7
structural_interaction_variant	MUM1L1
structural_interaction_variant	MUM1L1
structural_interaction_variant	MUM1L1
structural_interaction_variant	MUM1L1
structural_interaction_variant	MUM1L1
splice_donor_variant&intron_variant	CXorf57
structural_interaction_variant	RNF128
structural_interaction_variant	TBC1D8B
structural_interaction_variant	RIPPLY1
structural_interaction_variant	NUP62CL

structural_interaction_variant	NUP62CL
structural_interaction_variant	NUP62CL
frameshift_variant	FRMPD3
structural_interaction_variant	FRMPD3
structural_interaction_variant	FRMPD3
structural_interaction_variant	FRMPD3
structural_interaction_variant	FRMPD3
structural_interaction_variant	FRMPD3
structural_interaction_variant	TSC22D3
structural_interaction_variant	ATG4A
structural_interaction_variant	COL4A5
structural_interaction_variant	COL4A5
structural_interaction_variant	COL4A5
structural_interaction_variant	GUCY2F
structural_interaction_variant	GUCY2F
structural_interaction_variant	KCNE1L
structural_interaction_variant	RGAG1
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structural_interaction_variant	RGAG1
structural_interaction_variant	RGAG1
structural_interaction_variant	CHRDL1
structural_interaction_variant	CAPN6
structural_interaction_variant	ALG13
structural_interaction_variant	LHFPL1
structural_interaction_variant	LHFPL1
structural_interaction_variant	IL13RA2
missense_variant&splice_region_variant	LRCH2
structural_interaction_variant	RBMXL3
structural_interaction_variant	RBMXL3
structural_interaction_variant	RBMXL3
structural_interaction_variant	RBMXL3
structural_interaction_variant	RBMXL3
stop_gained	LUZP4
structural_interaction_variant	AGTR2
structural_interaction_variant	KLHL13
structural_interaction_variant	KLHL13
structural_interaction_variant	WDR44
structural_interaction_variant	WDR44
structural_interaction_variant	WDR44
structural_interaction_variant	WDR44
structural_interaction_variant	DOCK11
structural_interaction_variant	IL13RA1
structural_interaction_variant	ZCCHC12
structural_interaction_variant	LONRF3
structural_interaction_variant	LONRF3

structural_interaction_variant	KIAA1210
structural_interaction_variant	KIAA1210
structural_interaction_variant	KIAA1210
structural_interaction_variant	KIAA1210
structural_interaction_variant	KIAA1210
stop_gained	KIAA1210
structural_interaction_variant	KIAA1210
structural_interaction_variant	KIAA1210
structural_interaction_variant	KIAA1210
frameshift_variant	SLC25A43
structural_interaction_variant	SEPT6
structural_interaction_variant	UPF3B
structural_interaction_variant	AKAP14
structural_interaction_variant	AKAP14
structural_interaction_variant	NKAP
structural_interaction_variant	ZBTB33
structural_interaction_variant	ATP1B4
structural_interaction_variant	ATP1B4
stop_gained	CUL4B
frameshift_variant&stop_gained	MCTS1
structural_interaction_variant	CT47B1
structural_interaction_variant	CT47B1
stop_gained	CT47B1
structural_interaction_variant	GLUD2
structural_interaction_variant	TENM1
structural_interaction_variant	TENM1
structural_interaction_variant	TENM1
splice_acceptor_variant&intron_variant	TENM1
structural_interaction_variant	DCAF12L2
structural_interaction_variant	DCAF12L2
structural_interaction_variant	DCAF12L2
structural_interaction_variant	DCAF12L1
structural_interaction_variant	DCAF12L1
frameshift_variant	CXorf64
structural_interaction_variant	ACTRT1
disruptive_inframe_deletion	ACTRT1
structural_interaction_variant	ACTRT1
structural_interaction_variant	SMARCA1
structural_interaction_variant	SMARCA1
structural_interaction_variant	XPNPEP2
structural_interaction_variant	XPNPEP2
structural_interaction_variant	XPNPEP2
structural_interaction_variant	XPNPEP2
structural_interaction_variant	SASH3
structural_interaction_variant	SASH3
structural_interaction_variant	UTP14A
structural_interaction_variant	BCORL1
structural_interaction_variant	BCORL1

structural_interaction_variant	BCORL1
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structural_interaction_variant	BCORL1
structural_interaction_variant	BCORL1
structural_interaction_variant	BCORL1
missense_variant&splice_region_variant	BCORL1
structural_interaction_variant	BCORL1
structural_interaction_variant	ELF4
structural_interaction_variant	ELF4
structural_interaction_variant	AIFM1
structural_interaction_variant	ARHGAP36
stop_gained	IGSF1
structural_interaction_variant	OR13H1
structural_interaction_variant	MST4
structural_interaction_variant	USP26
structural_interaction_variant	USP26
structural_interaction_variant	USP26
structural_interaction_variant	GPC4
structural_interaction_variant	GPC4
structural_interaction_variant	CCDC160
structural_interaction_variant	CCDC160
stop_gained	PLAC1
structural_interaction_variant	FAM122B
missense_variant&splice_region_variant	FAM122C
structural_interaction_variant	SMIM10
structural_interaction_variant	FAM127B
structural_interaction_variant	FAM127B
structural_interaction_variant	ZNF75D
stop_gained	ZNF75D
structural_interaction_variant	ZNF75D
structural_interaction_variant	ZNF449
structural_interaction_variant	DDX26B
structural_interaction_variant	DDX26B
structural_interaction_variant	DDX26B
structural_interaction_variant	DDX26B
structural_interaction_variant	SAGE1
structural_interaction_variant	SAGE1
stop_gained	GPR112
structural_interaction_variant	GPR112
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structural_interaction_variant	GPR112
structural_interaction_variant	GPR112
stop_gained	GPR112

structural_interaction_variant	GPR112
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structural_interaction_variant	GPR112
structural_interaction_variant	HTATSF1
structural_interaction_variant	CD40LG
structural_interaction_variant	ARHGEF6
structural_interaction_variant	ARHGEF6
structural_interaction_variant	ARHGEF6
structural_interaction_variant	GPR101
structural_interaction_variant	MCF2
splice_donor_variant&intron_variant	MCF2
structural_interaction_variant	ATP11C
structural_interaction_variant	ATP11C
structural_interaction_variant	SOX3
structural_interaction_variant	MAGEC3
structural_interaction_variant	MAGEC3
structural_interaction_variant	MAGEC3
structural_interaction_variant	MAGEC3
structural_interaction_variant	MAGEC1
structural_interaction_variant	MAGEC1
frameshift_variant	MAGEC1
frameshift_variant&stop_gained	MAGEC1
structural_interaction_variant	MAGEC1
stop_gained	MAGEC1
structural_interaction_variant	MAGEC1
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structural_interaction_variant	MAGEC1
frameshift_variant	MAGEC1
stop_gained	MAGEC1
structural_interaction_variant	MAGEC1
structural_interaction_variant	MAGEC1
stop_lost	MAGEC1
structural_interaction_variant	MAGEC2
structural_interaction_variant	SPANXN2
structural_interaction_variant	SLITRK2
structural_interaction_variant	SLITRK2
structural_interaction_variant	SLITRK2
structural_interaction_variant	SLITRK2
structural_interaction_variant	SLITRK2
structural_interaction_variant	SLITRK2
structural_interaction_variant	FMR1NB
structural_interaction_variant	AFF2
structural_interaction_variant	MAGEA11

structural_interaction_variant	MAGEA8
structural_interaction_variant	MAMLD1
stop_gained	MAMLD1
structural_interaction_variant	MTMR1
structural_interaction_variant	MTMR1
structural_interaction_variant	GPR50
structural_interaction_variant	GPR50
structural_interaction_variant	GPR50
structural_interaction_variant	GPR50
structural_interaction_variant	GPR50
structural_interaction_variant	PASD1
structural_interaction_variant	PASD1
splice_acceptor_variant&intron_variant	RP11-45D17.1
structural_interaction_variant	PASD1
structural_interaction_variant	PRRG3
structural_interaction_variant	PRRG3
structural_interaction_variant	MAGEA4
structural_interaction_variant	GABRE
structural_interaction_variant	GABRQ
structural_interaction_variant	CETN2
structural_interaction_variant	ZNF185
frameshift_variant	MAGEA1
structural_interaction_variant	MAGEA1
structural_interaction_variant	BGN
structural_interaction_variant	ATP2B3
structural_interaction_variant	ATP2B3
structural_interaction_variant	PNCK
structural_interaction_variant	PLXNB3
structural_interaction_variant	SRPK3
structural_interaction_variant	SRPK3
structural_interaction_variant	SRPK3
structural_interaction_variant	SRPK3
structural_interaction_variant	SRPK3
stop_gained	L1CAM
structural_interaction_variant	LCA10
structural_interaction_variant	AVPR2
structural_interaction_variant	AVPR2
structural_interaction_variant	ARHGAP4
structural_interaction_variant	ARHGAP4
structural_interaction_variant	RENBP
structural_interaction_variant	RENBP
structural_interaction_variant	RENBP
structural_interaction_variant	TMEM187
structural_interaction_variant	FLNA
structural_interaction_variant	FLNA
structural_interaction_variant	PLXNA3
structural_interaction_variant	PLXNA3
structural_interaction_variant	PLXNA3

structural_interaction_variant	PLXNA3
structural_interaction_variant	SLC10A3
structural_interaction_variant	G6PD
frameshift_variant	IKBKG
structural_interaction_variant	CTAG2
structural_interaction_variant	GAB3
structural_interaction_variant	MPP1
structural_interaction_variant	MPP1
splice_acceptor_variant&intron_variant	VBP1

Gnomad_allele_frequency	Allele_count (	Allele_count cc	Allele_number	Allele_number
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4.08286584519406E-6	0	1	210	2480
.	0	1	210	2506
4.073452495397E-6	0	1	208	2502
4.06388426057626E-6	0	1	210	2514
.	0	1	210	2510
.	0	1	206	2426
4.07089877303111E-6	0	1	210	2510
8.15501043841336E-6	0	1	206	2482
.	0	1	210	2498
.	0	1	210	2544
4.07870264626228E-6	1	0	208	2482
.	0	1	210	2458
.	0	3	210	2492
.	0	1	208	2478
8.28459231521217E-6	0	0	206	2468
8.13471081103067E-6	0	1	210	2504
8.12360883198752E-6	0	1	210	2500
7.21547575239373E-6	0	1	210	2506
4.09406524302371E-6	0	1	206	2452
.	0	1	198	2440
.	0	1	204	2438
.	0	1	210	2444
4.22822253980872E-6	0	0	208	2486
.	0	0	208	2530
4.46911395346759E-6	0	1	206	2498
8.25348090557192E-6	0	0	200	2442
.	0	1	210	2478
.	1	0	210	2538
.	0	1	210	2536
.	0	1	210	2520
.	0	1	202	2502
8.34397189750265E-6	0	1	196	2440
8.1232128931635E-6	0	1	208	2536
.	0	1	208	2536
4.07176071076655E-6	0	1	210	2544
7.56177974047972E-6	0	1	210	2468
.	0	1	200	2464
8.16373180508274E-6	0	1	208	2494
.	0	1	206	2466
4.09091652893914E-6	0	2	202	2432
4.10944267738409E-6	0	1	202	2424
.	1	0	210	2456
.	0	1	210	2492
8.79283208328571E-6	0	1	210	2498
.	0	1	210	2490
4.06249746093909E-6	0	1	210	2540

.	0	1	210	2542
0.0	0	1	210	2454
4.0628935928168E-6	0	1	210	2502
.	0	1	208	2422
.	0	1	208	2476
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4.06963967410325E-6	1	0	206	2444
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.	0	1	208	2522
4.06137550665659E-6	0	1	210	2508
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.	0	1	210	2480
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8.14120098997004E-6	0	1	210	2510
4.06563562147306E-6	0	1	208	2484
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.	0	1	204	2444
.	0	0	208	2526
8.13510787153038E-6	1	0	210	2478
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8.14610860391991E-6	0	1	210	2498
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4.06355398431468E-6	0	1	210	2516
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8.14863102998696E-6	0	0	208	2534
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8.12275101331319E-6	0	1	210	2532
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4.06262949631519E-6	0	1	208	2450

.	0	1	206	2450
.	0	1	202	2488
8.16526496284804E-6	0	1	210	2484
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.	0	1	204	2428
4.06447889316111E-6	0	1	208	2482
4.06715689464437E-6	1	0	206	2454
.	0	1	204	2424
4.16188050408697E-6	0	1	200	2438
.	0	1	208	2472
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7.23107627339253E-6	0	1	210	2506
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.	0	1	208	2482
4.07202599581396E-6	0	1	210	2482
8.13755726805927E-6	0	1	210	2476
8.14027318756818E-6	0	1	210	2470
7.2188614411735E-6	0	1	210	2472
8.12882562856144E-6	0	1	206	2422
4.0607488020791E-6	0	1	210	2472
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7.73239719777925E-6	0	1	208	2518
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4.12639988115968E-6	0	1	210	2520
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.	0	0	202	2522
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.	0	1	210	2528
7.23589001447178E-6	0	1	208	2502
4.0650406504065E-6	0	1	210	2492
4.07544463100924E-6	0	1	210	2514
4.1262636682484E-6	0	1	208	2516
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4.06249746093909E-6	0	1	210	2530
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8.13616688905523E-6	0	1	210	2524
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4.06385123053415E-6	0	1	210	2544
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.	0	0	210	2532
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4.06718997844389E-6	0	1	210	2536
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4.07637496127444E-6	0	1	206	2440
8.2196960356406E-6	0	1	208	2468
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.	0	1	210	2422
.	0	1	200	2464
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8.15800422584619E-6	1	0	206	2434
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7.21589228116003E-6	1	0	210	2528
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4.0611116074692E-6	0	1	208	2534
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8.15201884746758E-6	0	1	206	2480
4.10927380913245E-6	0	1	210	2456
8.2018979191785E-6	0	1	204	2468
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8.17347380810318E-6	0	1	210	2490
8.12651356315114E-6	0	1	206	2516
4.07401673606075E-6	0	2	200	2442
8.1451796826638E-6	0	1	206	2436
.	0	1	206	2512
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4.06154046106607E-6	0	1	210	2518
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8.12763640205792E-6	0	1	210	2536
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8.17020164057649E-6	0	1	210	2520
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4.06229942396594E-6	0	1	210	2516
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8.20748522652659E-6	0	1	202	2422
4.06728923307194E-6	0	1	210	2524
4.07953460669207E-6	0	1	208	2528
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8.12638148485243E-6	0	1	208	2518
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.	0	1	210	2542
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8.12149760415821E-6	0	1	204	2462
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.	0	1	202	2440
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4.51528423714273E-6	0	1	196	2432
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.	0	1	206	2548
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7.33449707353567E-6	1	0	190	2450
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4.06352095964111E-6	0	1	202	2448
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4.06223341593208E-6	0	1	208	2530
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8.14916226611904E-6	0	1	210	2490
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8.12308092213215E-6	0	1	210	2498
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4.17868037273829E-6	0	1	206	2446
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7.21474694275098E-6	0	1	210	2536
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8.13021349940649E-6	0	1	206	2504
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4.06540422314191E-6	0	1	208	2444
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7.21948683887549E-6	0	1	204	2494
4.27460032486962E-6	0	1	200	2452
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4.0607488020791E-6	0	1	210	2514
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7.22256328771081E-6	0	1	210	2514
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4.07219181652333E-6	0	2	210	2544
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7.23358699111716E-6	0	1	208	2480
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4.06236543414499E-6	0	1	210	2524
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8.12856132593092E-6	0	2	210	2494
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8.15740529252455E-6	0	0	208	2474
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8.1486974307157E-6	0	1	210	2536
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4.09396467727276E-6	0	1	206	2436
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8.33041768714283E-6	0	1	208	2502
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8.12176144762276E-6	0	1	210	2536
8.13047790949152E-6	0	1	210	2474
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4.06180441599376E-6	0	1	206	2528
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8.35757028716611E-6	0	1	200	2442
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8.22010143605172E-6	0	1	206	2450
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4.07395034669317E-6	0	1	210	2488
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9.72459934650692E-6	0	0	34	484
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8.12961863958962E-6	1	0	210	2546
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4.13674421683158E-6	0	1	202	2460
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7.21906989503472E-6	0	1	210	2546
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8.40336134453782E-6	0	1	210	2438
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4.06778557888657E-6	0	2	208	2484
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8.13305680940181E-6	0	1	210	2538
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4.10468590943421E-6	0	1	208	2454
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4.08623592291725E-6	0	1	208	2486
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5.55827293343412E-6	0	1	210	2494
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8.13411529295016E-6	0	1	210	2516
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8.13424762276613E-6	0	2	210	2502
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4.06134251738255E-6	0	1	210	2494
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4.1071809952521E-6	1	0	208	2460
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8.13702754383824E-6	0	1	210	2522
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8.12202530823086E-6	0	1	210	2536
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7.21948683887549E-6	0	1	210	2512
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8.19484052840332E-6	0	1	204	2522
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7.23003065532998E-6	0	1	210	2490
4.06068284442712E-6	0	1	208	2474
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4.06170542887548E-6	0	1	210	2544
8.13107289506851E-6	0	1	210	2544
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8.13259380946959E-6	0	1	206	2438
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4.07030226064588E-6	0	1	208	2478
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8.1504906595377E-6	0	2	210	2476
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8.22774395260819E-6	0	2	204	2452
8.12380681587392E-6	1	0	210	2502
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8.14909585781457E-6	0	2	210	2542
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4.08884236694907E-6	1	0	210	2536
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8.15594160345812E-6	0	5	210	2540
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8.12182741116751E-6	0	1	208	2482
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4.06758702602442E-6	0	1	206	2466
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4.06200240470542E-6	0	1	208	2450
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8.12413681046389E-6	0	1	208	2478
8.14471530147664E-6	1	0	204	2458
4.06173842404549E-6	0	1	210	2496
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4.15990681808727E-6	0	1	208	2470
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8.13583591646124E-6	0	1	210	2486
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8.15142079264416E-6	0	1	210	2470
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8.15820388983162E-6	0	1	210	2472
4.13267541140784E-6	0	1	210	2522
4.06256347755434E-6	0	1	210	2546
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7.21505927171192E-6	0	1	206	2486
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8.12519297333312E-6	0	1	210	2534

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8.17975836993775E-6	1	0	206	2422
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8.12149760415821E-6	0	0	210	2526
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9.38191916538447E-6	0	1	210	2538
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8.12558910521013E-6	0	0	210	2498
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8.12116782393308E-6	0	1	210	2540
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4.06226641968087E-6	0	1	208	2486
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4.07507926029161E-6	0	3	208	2440
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8.16633184706094E-6	0	0	202	2442
0.0	0	1	208	2482
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.	0	1	198	2450
8.14916226611904E-6	0	1	208	2458
8.14796708221299E-6	0	1	208	2464
.	0	1	200	2462
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4.14095821773158E-6	0	2	206	2440
8.15920235637764E-6	0	1	208	2470
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4.06107862248213E-6	0	2	210	2488
4.0630586705672E-6	0	1	210	2490
.	0	1	210	2500
4.06088072381138E-6	0	1	210	2498
4.06262949631519E-6	0	1	210	2502
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4.06121056564541E-6	0	1	210	2498
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4.06157345355591E-6	0	1	210	2496
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7.23243602910332E-6	0	1	210	2484
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4.10805836729328E-6	0	0	208	2508
8.16579837010665E-6	0	1	206	2478
8.12110187110187E-6	1	0	210	2518
8.12268503476509E-6	0	1	210	2532
8.39052877112316E-6	0	1	204	2454
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4.09252377756315E-6	0	1	204	2440
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8.16239909234122E-6	0	0	204	2480
.	0	1	210	2474
4.06134251738255E-6	0	1	210	2458
4.06652840470091E-6	0	1	208	2474
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8.12195934147154E-6	0	1	210	2518
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8.12334486848305E-6	0	1	210	2534
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8.41325929665152E-6	0	2	206	2486
4.13376875697573E-6	0	1	210	2428
4.06457801551043E-6	0	1	208	2450
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7.14571542902875E-6	0	1	210	2470

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7.22423296706472E-6	0	1	208	2494
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4.06877863402964E-6	0	1	210	2490
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7.2208943799779E-6	1	0	210	2546
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8.12473086828999E-6	0	1	196	2444
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4.06431369998862E-6	0	1	210	2510
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8.12182741116751E-6	0	1	208	2460
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4.06930846172002E-6	0	2	210	2526
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4.06190340793696E-6	0	1	204	2496
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4.08143274615121E-6	0	1	210	2462
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8.12757034412133E-6	0	1	210	2498
8.12195934147154E-6	0	1	208	2526
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8.18638767457472E-6	0	1	198	2468
7.30598945015123E-6	0	1	206	2488
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4.12408548404391E-6	0	1	204	2456
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6.0181507426398E-6	1	0	208	2466
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8.15108857787958E-6	0	1	210	2534
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4.10067989272621E-6	1	0	202	2482
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4.06437977564624E-6	0	1	208	2518
4.07960117818882E-6	0	1	210	2470
4.07753847157548E-6	0	1	210	2504
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8.15221821857727E-6	0	1	210	2478
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8.14226159458051E-6	0	1	206	2450
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4.06097967073577E-6	0	1	206	2532
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4.06480931979481E-6	0	1	210	2486
4.07763823193606E-6	0	0	12	160
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8.1518194861093E-6	0	1	208	2422
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4.06124355277586E-6	0	1	210	2532
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4.12109423294073E-6	0	0	204	2444
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7.31705532425531E-6	0	1	210	2466
4.34333168286729E-6	0	1	202	2422
7.25952813067151E-6	0	1	208	2494
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8.12922211473584E-6	0	1	208	2508
8.13894812234467E-6	0	0	208	2472
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4.06101265411543E-6	0	1	210	2502
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8.12539103444353E-6	0	1	210	2540
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4.06078178170861E-6	0	2	210	2456
4.06527200735001E-6	0	1	210	2544
4.0614414868125E-6	0	1	210	2542
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4.13619668442474E-6	0	1	210	2542
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7.21563194504575E-6	1	0	210	2480
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8.13768970989136E-6	0	1	206	2462
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8.12816490420958E-6	0	1	210	2494
8.13113900995251E-6	0	1	208	2496
8.18920335429769E-6	0	1	206	2454
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8.12268503476509E-6	0	1	210	2476
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8.12354283950316E-6	0	3	202	2526
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4.06543727843367E-6	0	1	210	2508
8.14053825238925E-6	0	2	210	2518
8.16139984330112E-6	0	3	210	2524
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8.42467080598826E-6	0	1	208	2514
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8.1477679189786E-6	1	0	208	2482
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4.06391729115529E-6	1	0	206	2462
4.06765320815809E-6	0	0	204	2454
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4.3127986613073E-6	0	1	208	2496
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8.12426881580658E-6	0	2	210	2496
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8.14511333925212E-6	0	2	204	2482
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4.13052457662123E-6	0	1	204	2462
4.11902329719577E-6	1	0	196	2458
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4.11522633744856E-6	0	6	208	2436
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8.20203246364449E-6	1	0	208	2478
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4.06213440790329E-6	0	1	208	2512
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8.12242113129081E-6	0	1	208	2514
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4.10202558023152E-6	0	1	206	2514
4.06781867291484E-6	0	2	192	2484
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4.10664126024607E-6	0	1	206	2478
4.08890924257045E-6	0	1	206	2498
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8.13987562270049E-6	0	1	210	2470
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8.12724007054444E-6	0	1	210	2494
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4.10677618069815E-6	0	0	210	2480
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8.12393881049288E-6	0	0	208	2468
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8.13815329025537E-6	0	1	206	2480
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8.15122146053586E-6	0	1	210	2542
4.06540422314191E-6	0	1	210	2504
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8.65508616138274E-6	0	1	208	2450
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7.30614958610663E-6	0	1	198	2434
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4.14913656468089E-6	0	1	206	2452
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8.1336521724985E-6	0	2	208	2474
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4.06431369998862E-6	0	1	210	2542
8.18210083621071E-6	0	2	208	2462
4.06805034619108E-6	0	1	210	2544
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4.10920626571771E-6	0	1	210	2510
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8.13246153345695E-6	0	1	208	2506
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9.13817839551864E-6	0	1	206	2520
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6.66471168457253E-6	0	1	204	2484
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8.80467704444601E-6	0	1	210	2540
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4.12991046354115E-6	0	0	202	2452
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8.12176144762276E-6	0	2	210	2510
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4.0911508407315E-6	0	1	208	2506
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4.06117757905082E-6	0	3	208	2542
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8.12308092213215E-6	0	1	210	2544
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8.20115800351009E-6	1	0	208	2526
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4.06332282287163E-6	0	1	208	2540
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4.06477627471384E-6	0	1	208	2500
8.12981691652304E-6	0	1	200	2464
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8.13947809666444E-6	0	1	206	2528
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8.12730612311243E-6	0	1	206	2468
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4.06058391196654E-6	0	1	208	2476
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4.10067989272621E-6	0	1	206	2458
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4.0662969047348E-6	0	0	208	2482
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7.2707707744098E-6	0	1	204	2504
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8.12426881580658E-6	0	1	210	2514
4.15907635232368E-6	1	0	202	2442
8.70155409756182E-6	0	1	198	2428
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8.13140348024069E-6	0	1	198	2496
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8.16226584499857E-6	0	1	210	2482
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8.1383519837233E-6	0	2	208	2450
7.21516338737491E-6	0	1	210	2542
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8.32701867750289E-6	0	1	208	2470
9.02136258660508E-6	0	1	210	2474
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5.70681793538741E-6	0	2	204	2498
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5.61308972523926E-6	0	2	210	2522
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5.66790604878934E-6	0	2	206	2478
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5.61800908993871E-6	0	1	208	2532
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5.73687260127014E-6	1	0	210	2488
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5.84668814350111E-6	0	2	206	2502

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5.66405364991617E-6	0	2	208	2540
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5.64828151035048E-6	0	0	208	2468
5.75132424240681E-6	0	4	206	2470
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5.59412393222159E-6	0	1	210	2536
5.64477435014535E-6	0	2	208	2530
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5.63840884102506E-6	0	1	208	2472
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5.59763108252587E-6	0	1	204	2528
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9.98776498788983E-6	0	2	210	2530
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5.70226208737006E-6	0	2	210	2492
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5.82011197895448E-6	0	2	202	2492
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5.59797577196086E-6	0	0	210	2502
5.83604222960157E-6	0	0	196	2432
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5.60048388180739E-6	0	0	210	2526
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5.69803816545963E-6	0	0	210	2504
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5.60764434076533E-6	0	0	208	2502
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5.60337098798637E-6	0	1	210	2516
5.60396760906722E-6	0	2	210	2530
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5.60780157354912E-6	0	2	210	2534
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5.6210406794714E-6	0	1	204	2514
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5.65380614229499E-6	0	2	210	2522
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5.59825782216574E-6	0	2	204	2490

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5.59377971695475E-6	0	3	206	2480
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5.87955150781098E-6	0	0	206	2450
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5.60324539973553E-6	0	2	208	2482
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5.61920870303044E-6	0	1	206	2488
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5.5991981948185E-6	0	2	210	2502
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5.66639656843024E-6	0	1	208	2540
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5.66325172587596E-6	0	1	210	2504
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5.87316316821914E-6	0	1	208	2484
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5.6187035403451E-6	1	0	208	2510
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5.61876668071358E-6	0	3	208	2436
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5.61268016703336E-6	0	1	210	2494
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5.61220767413277E-6	0	2	208	2486
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5.59681653075731E-6	0	1	210	2506
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5.60177015937036E-6	2	0	210	2518
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5.62464494428789E-6	0	1	208	2478
5.87464678686194E-6	0	1	210	2528
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5.95163699775623E-6	0	2	204	2428
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5.61214468108988E-6	0	1	206	2444
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5.69411228789432E-6	0	1	208	2502
9.96919518687256E-6	1	0	206	2478
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5.61807221470025E-6	0	2	208	2474
5.61794596659569E-6	0	2	204	2422
6.00889316187958E-6	0	2	210	2482
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5.86937127294924E-6	0	2	210	2496
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5.85733865960662E-6	0	4	210	2468
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7.45261996854994E-6	0	2	204	2430
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5.6111999551104E-6	0	1	206	2424
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5.63898114888602E-6	0	0	208	2474
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5.59268476832303E-6	1	0	210	2544
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5.61258566208867E-6	0	2	210	2510
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5.60327679627046E-6	0	1	206	2426
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5.65064332574264E-6	0	1	202	2446
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5.61060179314833E-6	0	1	210	2528
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5.67636757885894E-6	0	1	206	2418
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5.60443871546265E-6	0	2	210	2526
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5.63297770467424E-6	0	1	104	922
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5.96961466137361E-6	0	2	208	2520
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5.62018771426966E-6	0	2	210	2528
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5.61595830712553E-6	0	1	210	2492
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5.61170376938142E-6	0	2	208	2544
5.60337098798637E-6	0	1	206	2438
5.616399887672E-6	0	1	210	2500
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5.60035842293907E-6	2	0	210	2542
5.62952120922116E-6	0	0	208	2484
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5.68857336268637E-6	0	0	208	2474
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5.59988800223995E-6	0	1	200	2468
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5.59938630726072E-6	0	2	210	2544
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5.65940564921872E-6	0	1	208	2442
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5.65588466519991E-6	0	1	210	2508
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5.59296628559923E-6	0	1	210	2548
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5.59575170530533E-6	0	1	210	2522
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5.77767506355443E-6	0	1	206	2484
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.	0	2	210	2510
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:ontrols

Chr	Pos	cum MAF	Gene	Nindivs	nvar
5	14678843	0.001814224	OTULIN	1378	4
10	90490848	0.001110289	LIPK	1351	3
19	34263307	0.000371471	CHST8	1346	1
4	74735476	0.000736377	CXCL1	1358	2
16	30678711	0.00074129	FBRS	1349	2
9	124929052	0.000728863	MORN5	1372	2
1	151747564	0.002900653	TDRKH	1379	8
4	128590241	0.001452433	INTU	1377	4
8	20107501	0.000733138	LZTS1	1364	2
1	114424445	0.001451379	BCL2L15	1378	4
11	26582755	0.001453488	MUC15	1376	3
14	67807173	0.000363901	ATP6V1D	1374	1
6	150719217	0.000366569	IYD	1364	1
8	76459841	0.000726216	HNF4G	1377	2
6	39073303	0.000738007	SAYSD1	1355	1
11	46896528	0.003625816	LRP4	1379	8
19	2076847	0.000728863	MOB3A	1372	2
6	160863788	0.000727273	SLC22A3	1375	2
11	32632755	0.002539913	CCDC73	1378	6
4	141488965	0.000728332	UCP1	1373	2
6	160328446	0.000725163	MAS1	1379	2
1	198492535	0.000726216	ATP6V1G3	1377	2
6	49753981	0.000734754	PGK2	1361	2
2	218679682	0.004354136	TNS1	1378	12
19	18705065	0.000746269	CRLF1	1340	2
16	778812	0.001111935	HAGHL	1349	3
19	39668345	0.000738552	PAK4	1354	1
15	78882855	0.001089325	CHRNA5	1377	3
12	39973401	0.001812908	ABCD2	1379	5
17	2221253	0.001088534	SRR	1378	3
1	210411332	0.001450326	SERTAD4	1379	4
14	102606342	0.001450326	WDR20	1379	4
9	34657140	0.002175489	IL11RA	1379	5
8	23146618	0.000738007	R3HCC1	1355	2
18	39570444	0.002539913	PIK3C3	1378	6
2	102954777	0.003625816	IL1RL1	1379	7
10	94654712	0.003265602	EXOC6	1378	8
2	230911061	0.001452433	SLC16A14	1377	4
2	99785867	0.001087745	MITD1	1379	3
11	4661424	0.001454545	OR51D1	1375	4
12	41585314	0.002539913	PDZRN4	1378	7
2	114475421	0.002175489	SLC35F5	1379	6
16	67695972	0.001453488	PARD6A	1376	4
8	11295997	0.000746269	C8orf12	1340	2
3	69225753	0.002949853	FRMD4B	1356	6
5	60817177	0.001107011	ZSWIM6	1355	3
9	86895793	0.001815541	SLC28A3	1377	5

8	144891042	0.001111935	SCRIB		1349	2
1	10042439	0.000729395	NMNAT1		1371	2
18	72109299	0.000364964	FAM69C		1370	1
22	36556937	0.000368189	APOL3		1358	1
1	19549948	0.002538071	EMC1		1379	7
11	34668046	0.001090116	EHF		1376	2
6	33380074	0.002538071	PHF1		1379	5
1	87329269	0.001107011		Sep-15	1355	3
19	54964816	0.001459854	LENG8		1370	4
3	126707629	0.004727273	PLXNA1		1375	12
20	49366391	0.000725689	PARD6B		1378	2
4	148559769	0.003625816	PRMT10		1379	10
7	5680804	0.001089325	RNF216		1377	3
3	101047372	0.002538071	SENP7		1379	7
12	49169777	0.001822157	ADCY6		1372	4
8	121216031	0.004350979	COL14A1		1379	12
20	42144814	0.003988397	L3MBTL1		1379	11
14	38222378	0.002900653	TTC6		1379	7
10	106976766	0.001092498	SORCS3		1373	3
2	74749871	0.002539913	DQX1		1378	5
16	14576591	0.002581121	PARN		1356	7
17	28712245	0.003263234	CPD		1379	9
19	50059603	0.001092498	NOSIP		1373	2
15	34395163	0.001087745	PGBD4		1379	3
2	54531929	0.000377644	ACYP2		1324	1
2	21225611	0.013415518	APOB		1379	34
1	116247824	0.001089325	CASQ2		1377	3
9	214540	0.001090116	C9orf66		1376	3
2	47601054	0.001453488	EPCAM		1376	3
22	37395982	0.000367647	TEX33		1360	1
11	64786177	0.000375657	ARL2		1331	1
7	128315792	0.001109467	FAM71F2		1352	3
16	88722559	0.000369549	MVD		1353	1
1	36932026	0.001109467	CSF3R		1352	3
3	25835779	0.000363636	OXSM		1375	1
15	90019997	0.001453488	RHCG		1376	4
1	27632682	0.000366032	WDTC1		1366	1
9	100368468	0.001450326	TSTD2		1379	4
6	33752176	0.00037594	LEMD2		1330	1
19	55832401	0.000372024	TMEM150B		1344	1
10	14867478	0.000379939	CDNF		1316	1
1	53925143	0.001104566	DMRTB1		1358	2
7	142829240	0.001090116	PIP		1376	2
6	146126176	0.001812908	FBXO30		1379	5
1	33985160	0.008339376	CSMD2		1379	21
22	37211154	0.000367107	PVALB		1362	1
9	127951960	0.000371195	PPP6C		1347	1
11	120097695	0.000372301	OAF		1343	1

18	580853	0.000365764	CETN1	1367	1
19	4037730	0.000381388	PIAS4	1311	1
9	112017957	0.000368189	EPB41L4B	1358	1
3	11340188	0.00182083	ATG7	1373	4
11	722152	0.000380228	EPS8L2	1315	1
20	30193209	0.000370645	ID1	1349	1
9	21077382	0.000363636	IFNB1	1375	1
17	74527747	0.000367377	CYGB	1361	1
1	228612957	0.00037594	HIST3H3	1330	1
10	105236194	0.000372578	CALHM3	1342	1
1	214803952	0.007619739	CENPF	1378	20
14	55881162	0.001451379	TBPL2	1378	3
6	11575747	0.000363108	TMEM170B	1377	1
1	160523856	0.000363372	CD84	1376	1
9	4663208	0.000362582	PPAPDC2	1379	1
19	46002775	0.000379651	PPM1N	1317	1
1	23519722	0.001087745	HTR1D	1379	3
12	7025611	0.000367377	ENO2	1361	1
2	223782820	0.001451379	ACSL3	1378	4
16	28509600	0.000380518	APOBR	1314	1
17	80417895	0.001090909	NARF	1375	3
13	43659971	0.000362845	DNAJC15	1378	1
19	4445514	0.000365497	UBXN6	1368	1
1	100672040	0.001812908	DBT	1379	4
5	140855768	0.002919708	PCDHGC3	1370	8
3	44986745	0.000368189	ZDHHC3	1358	1
19	39888221	0.000368732	MED29	1356	1
1	93965064	0.003687316	FNBP1L	1356	7
13	107145543	0.001094092	EFNB2	1371	3
17	6945111	0.000372301	SLC16A11	1343	1
14	24975326	0.001090909	CMA1	1375	3
1	65831854	0.002175489	DNAJC6	1379	6
1	24020373	0.000364964	RPL11	1370	1
17	43005619	0.001476015	KIF18B	1355	4
4	71388470	0.000366569	AMTN	1364	1
11	92085391	0.015855457	FAT3	1356	40
1	6534568	0.000376506	PLEKHG5	1328	1
16	2821477	0.000364431	TCEB2	1372	1
6	80636044	0.000364697	ELOVL4	1371	1
1	150204144	0.000363108	ANP32E	1377	1
7	136700566	0.00036846	CHRM2	1357	1
3	48637983	0.000368732	UQCRC1	1356	1
1	36367893	0.000374813	AGO1	1334	1
11	6898080	0.001451379	OR10A4	1378	3
2	55750923	0.001450326	CCDC104	1379	4
19	14076351	0.001831502	RFX1	1365	5
1	16375510	0.001088534	CLCNKB	1378	3
11	14487873	0.001815541	COPB1	1377	5

20	17705792	0.000363901	BANF2	1374	1
12	124099851	0.001097293	DDX55	1367	3
10	24880239	0.003267974	ARHGAP21	1377	6
2	219093550	0.000368732	ARPC2	1356	1
2	179306408	0.000369822	PRKRA	1352	1
19	50374845	0.000364431	AKT1S1	1372	1
3	152553600	0.001094891	P2RY1	1370	3
19	33246927	0.001477105	TDRD12	1354	4
2	9630314	0.000725689	ADAM17	1378	2
16	11859421	0.001087745	ZC3H7A	1379	3
19	51848533	0.001822157	ETFB	1372	5
9	140145804	0.001846381	C9orf173	1354	5
22	39445506	0.000363372	APOBEC3F	1376	1
11	78152164	0.001450326	NARS2	1379	4
3	12560655	0.000364697	TSEN2	1371	1
8	22880395	0.001814224	TNFRSF10B	1378	5
9	125487097	0.000363901	OR1L4	1374	1
1	213134592	0.001814224	VASH2	1378	4
1	170501362	0.002538071	GORAB	1379	7
1	42880572	0.000366569	RIMKLA	1364	1
11	60310005	0.000372301	MS4A13	1343	1
7	140221701	0.003263234	DENND2A	1379	8
2	31467240	0.001815541	EHD3	1377	5
6	7862645	0.000380228	BMP6	1315	1
21	45534598	0.002177068	PWP2	1378	6
5	176734797	0.000737463	MXD3	1356	2
19	56126096	0.000374813	ZNF865	1334	1
15	94883465	0.002175489	MCTP2	1379	4
1	12294414	0.010885341	VPS13D	1378	27
16	68071992	0.002175489	DUS2	1379	6
4	7043053	0.001815541	CCDC96	1377	5
17	48192974	0.00146092	SAMD14	1369	4
3	133306765	0.000367647	CDV3	1360	1
14	68193884	0.000374251	RDH12	1336	1
17	45199904	0.001088534	CDC27	1378	3
14	24909628	0.000375657	SDR39U1	1331	1
2	172822338	0.000363636	HAT1	1375	1
16	83994252	0.001092498	OSGIN1	1373	3
5	131545009	0.000733138	P4HA2	1364	2
2	36970288	0.002902758	VIT	1378	8
4	46736998	0.001452433	COX7B2	1377	4
4	71840887	0.000727273	MOB1B	1375	2
4	1016210	0.001102941	FGFRL1	1360	3
7	139790952	0.003625816	KDM7A	1379	10
19	46094145	0.000732601	GPR4	1365	2
8	145619106	0.003628447	CPSF1	1378	10
9	4604236	0.001451379	SPATA6L	1378	4
7	148963636	0.001828822	ZNF783	1367	5

19	51016581	0.000377644	ASPDH	1324	1
4	90034553	0.001472754	TIGD2	1358	4
17	74071167	0.000728332	GALR2	1373	2
12	53776083	0.001087745	SP1	1379	3
6	33254957	0.001814224	WDR46	1378	4
14	23532259	0.005438724	ACIN1	1379	15
13	111885584	0.000366569	ARHGEF7	1364	1
18	32920461	0.000367107	ZNF24	1362	1
1	76779590	0.001812908	ST6GALNAC3	1379	4
12	125834199	0.003625816	TMEM132B	1379	9
2	234164771	0.000732601	ATG16L1	1365	2
1	16774594	0.000377358	NECAP2	1325	1
2	68385083	0.000364431	PNO1	1372	1
7	108143008	0.001815541	PNPLA8	1377	3
20	1460539	0.000362582	SIRPB2	1379	1
4	68925056	0.000362845	TMPRSS11F	1378	1
3	52874535	0.0003663	TMEM110	1365	1
3	52874535	0.0003663	TMEM110-MUSTN1	1365	1
9	27524436	0.001451379	IFNK	1378	4
1	33233487	0.002177068	KIAA1522	1378	6
2	27530443	0.00037594	UCN	1330	1
10	76797716	0.001451379	DUPD1	1378	4
9	79792696	0.005801305	VPS13A	1379	15
4	8603053	0.00399419	CPZ	1377	9
11	86097123	0.002183406	CCDC81	1374	6
1	51253729	0.001450326	FAF1	1379	4
1	1601571	0.000375094	SLC35E2B	1333	1
2	88367477	0.002175489	SMYD1	1379	6
19	57175145	0.002197802	ZNF835	1365	6
16	47156614	0.002177068	NETO2	1378	5
15	40099421	0.000379939	GPR176	1316	1
17	65714180	0.001819505	NOL11	1374	5
9	95099837	0.001818182	CENPP	1375	4
22	39078395	0.000366838	TOMM22	1363	1
6	149983329	0.003625816	LATS1	1379	10
7	102038133	0.000370096	PRKRIP1	1351	1
9	123586898	0.001812908	PSMD5	1379	4
8	145223338	0.001118568	MROH1	1341	3
5	169081483	0.005076142	DOCK2	1379	14
2	228476334	0.000363372	C2orf83	1376	1
7	143807008	0.000363108	OR2A2	1377	1
1	113196257	0.000375375	CAPZA1	1332	1
11	119044227	0.001455604	NLRX1	1374	4
19	48041638	0.002588757	ZNF541	1352	7
16	20800868	0.001451379	ERI2	1378	4
4	113436600	0.000366569	NEUROG2	1364	1
1	36292429	0.00036846	AGO4	1357	1
17	37226107	0.002181818	PLXDC1	1375	5

17	16327013	0.002178649	TRPV2	1377	6
1	185067381	0.000364697	RNF2	1371	1
8	17126410	0.000378501	VPS37A	1321	1
21	31971118	0.000363636	KRTAP6-2	1375	1
22	41926850	0.000364964	POLR3H	1370	1
16	22926684	0.000363636	HS3ST2	1375	1
8	133092003	0.001845018	HHLA1	1355	5
1	159557914	0.000364431	APCS	1372	1
2	210518022	0.003988397	MAP2	1379	10
1	223396636	0.002184996	SUSD4	1373	6
19	10973875	0.000371747	C19orf38	1345	1
4	162307006	0.001812908	FSTL5	1379	5
11	55890346	0.000362582	OR8H3	1379	1
8	99101433	0.000364166	C8orf47	1373	1
3	9754236	0.000725689	CPNE9	1378	2
5	1034907	0.000369549	NKD2	1353	1
18	56985637	0.000364431	CPLX4	1372	1
11	120979956	0.009789703	TECTA	1379	26
3	160225913	0.000364431	KPNA4	1372	1
1	70715711	0.000365764	SRSF11	1367	1
9	113637931	0.00036523	LPAR1	1369	1
6	13487104	0.000733676	GFOD1	1363	2
6	18191470	0.00181686	KDM1B	1376	4
19	13885346	0.000747384	C19orf53	1338	2
14	74754572	0.001455604	ABCD4	1374	4
13	108881745	0.000363108	ABHD13	1377	1
1	233802485	0.000726216	KCNK1	1377	2
7	30922569	0.000363901	AQP1	1374	1
9	136218800	0.001815541	SURF1	1377	5
5	65058852	0.002538071	NLN	1379	7
1	12711184	0.000726744	AADACL4	1376	2
22	39132218	0.000373134	GTPBP1	1340	1
1	186370200	0.000370645	OCLM	1349	1
19	23170144	0.000363901	ZNF728	1374	1
3	183855470	0.00181686	EIF2B5	1376	5
15	85165219	0.000363108	ZSCAN2	1377	1
4	110757286	0.000726744	RRH	1376	2
19	5641793	0.001812908	SAFB	1379	5
18	24496373	0.001812908	CHST9	1379	5
7	150069018	0.000371195	REPIN1	1347	1
17	59489682	0.000377644	C17orf82	1324	1
1	212118144	0.002538071	INTS7	1379	6
10	88820492	0.000367107	GLUD1	1362	1
14	73945406	0.002541757	HEATR4	1377	7
11	28083952	0.002538071	KIF18A	1379	7
2	179358582	0.000367918	PLEKHA3	1359	1
10	120920566	0.000369549	SFXN4	1353	1
8	87549859	0.001814224	CPNE3	1378	5

3	48658325	0.000371195	TMEM89	1347	1
4	74702788	0.000725689	CXCL6	1378	2
1	235827339	0.009427121	LYST	1379	26
1	22985959	0.000726216	C1QB	1377	2
5	140035462	0.000373972	IK	1337	1
11	59997420	0.000367647	MS4A4E	1360	1
19	4429593	0.001456664	CHAF1A	1373	4
22	43024289	0.000367377	CYB5R3	1361	1
6	41754698	0.000363901	PRICKLE4	1374	1
2	7001474	0.000364964	CMPK2	1370	1
13	28367924	0.000373413	GSX1	1339	1
19	44169583	0.000725689	PLAUR	1378	2
20	39992499	0.000372301	EMILIN3	1343	1
8	22370875	0.002180233	PPP3CC	1376	4
2	95940536	0.002177068	PROM2	1378	6
12	130830306	0.003631082	PIWIL1	1377	9
1	2234821	0.000377358	SKI	1325	1
19	32902232	0.001815541	DPY19L3	1377	5
7	91630895	0.011240029	AKAP9	1379	26
8	146278176	0.000378501	C8orf33	1321	1
10	11894102	0.000732064	PROSER2	1366	2
22	38689318	0.000364697	CSNK1E	1371	1
9	19070250	0.000368189	HAUS6	1358	1
14	24601001	0.002186589	FITM1	1372	5
19	3964332	0.000369822	DAPK3	1352	1
1	185268931	0.000362845	IVNS1ABP	1378	1
19	58452398	0.002175489	ZNF256	1379	6
16	20955868	0.014140682	DNAH3	1379	34
12	69746949	0.000365497	LYZ	1368	1
7	36934469	0.000364166	ELMO1	1373	1
14	65008576	0.000375094	HSPA2	1333	1
4	74853820	0.000380807	PPBP	1313	1
6	30882801	0.002539913	VARS2	1378	7
7	6066517	0.002902758	EIF2AK1	1378	7
20	860439	0.000731529	ANGPT4	1367	2
14	45645855	0.000364166	FANCM	1373	1
1	26392850	0.000373134	TRIM63	1340	1
3	48916826	0.000725163	SLC25A20	1379	2
12	6939098	0.001476015	LEPREL2	1355	4
16	52484404	0.000373692	TOX3	1338	1
1	86048258	0.001089325	CYR61	1377	3
19	51358213	0.001452433	KLK3	1377	4
11	128709283	0.002180233	KCNJ1	1376	6
17	40557020	0.000729927	PTRF	1370	2
11	94169008	0.003988397	MRE11A	1379	10
6	84859313	0.005162242	KIAA1009	1356	13
17	26675169	0.000371471	POLDIP2	1346	1
22	40800386	0.002541757	SGSM3	1377	7

22	19794254	0.00037594	GNB1L	1330	1
2	109513665	0.000729927	EDAR	1370	2
17	6683560	0.001087745	FBXO39	1379	3
2	24369675	0.000369004	FAM228B	1355	1
3	48508134	0.000726216	TREX1	1377	2
20	55072186	0.000369276	GCNT7	1354	1
19	49303535	0.001815541	BCAT2	1377	5
11	71929630	0.000372578	FOLR2	1342	1
5	140799777	0.000381098	PCDHGB7	1312	1
16	72088554	0.00037594	HP	1330	1
16	72088554	0.00037594	HPR	1330	1
7	2297079	0.002178649	SNX8	1377	6
1	247614591	0.001830161	OR2B11	1366	3
2	148705652	0.002175489	ORC4	1379	5
10	63662143	0.002175489	ARID5B	1379	6
17	46024041	0.000363636	PNPO	1375	1
5	139494200	0.000378215	PURA	1322	1
6	160176245	0.00036523	WTAP	1369	1
6	57244795	0.002212389	PRIM2	1356	5
1	22456217	0.000364166	WNT4	1373	1
12	102147150	0.002900653	GNPTAB	1379	8
20	49195795	0.000363901	PTPN1	1374	1
11	64514790	0.002900653	PYGM	1379	8
12	57867833	0.000735835	ARHGAP9	1359	2
13	42179381	0.002538071	VWA8	1379	5
19	18304704	0.00037594	MPV17L2	1330	1
5	150639398	0.000369004	GM2A	1355	1
22	43821115	0.000371195	MPPED1	1347	1
10	70666722	0.001451379	DDX50	1378	4
14	20344530	0.000362845	OR4K2	1378	1
7	99358468	0.000377644	CYP3A4	1324	1
8	24242054	0.001812908	ADAMDEC1	1379	5
1	153520880	0.00037092	S100A3	1348	1
16	79632823	0.000367107	MAF	1362	1
12	118463607	0.000367377	RFC5	1361	1
19	18170810	0.018195051	IL12RB1	1374	24
3	197495432	0.00036846	FYTTD1	1357	1
11	73020531	0.005079826	ARHGEF17	1378	14
6	55304310	0.000370645	HMGCLL1	1349	1
22	50644808	0.002547307	SELO	1374	7
11	61608177	0.000369549	FADS2	1353	1
1	155237867	0.000381388	CLK2	1311	1
17	37455309	0.000363372	FBXL20	1376	1
1	62713238	0.002177068	KANK4	1378	5
14	25043954	0.00037037	CTSG	1350	1
17	56348021	0.002541757	MPO	1377	6
1	101456065	0.000366032	AC093157.1	1366	1
1	101456065	0.000366032	DPH5	1366	1

1	36898181	0.000364697	OSCP1	1371	1
2	69585592	0.000371471	GFPT1	1346	1
7	25191287	0.000364964	C7orf31	1370	1
6	52054073	0.000364697	IL17A	1371	1
13	45973182	0.001814224	SLC25A30	1378	5
16	81208393	0.007251632	PKD1L2	1379	20
10	43654192	0.000363901	CSGALNACT2	1374	1
16	77242377	0.00037594	SYCE1L	1330	1
11	67274868	0.000374532	CDK2AP2	1335	1
6	42891038	0.000368189	PTCRA	1358	1
20	62407316	0.000372856	ZBTB46	1341	1
3	108103569	0.00906454	MYH15	1379	23
15	34653690	0.000378501	LPCAT4	1321	1
2	103431305	0.000365497	TMEM182	1368	1
11	102826072	0.000362582	MMP13	1379	1
2	151331475	0.000364697	RND3	1371	1
2	65543977	0.000371195	SPRED2	1347	1
9	132397715	0.000738007	NTMT1	1355	2
2	242173259	0.003263234	HDLBP	1379	9
3	196095015	0.000362845	UBXN7	1378	1
19	3478466	0.000371195	C19orf77	1347	1
1	236187465	0.000736377	NID1	1358	2
11	62123809	0.000729395	ASRGL1	1371	2
1	43203960	0.000372578	CLDN19	1342	1
8	37599289	0.000363108	ERLIN2	1377	1
9	133307921	0.000371747	HMCN2	1345	1
19	39760261	0.000366569	IFNL2	1364	1
6	114274553	0.000364166	HDAC2	1373	1
5	127448606	0.00037037	SLC12A2	1350	1
12	103984798	0.007614213	STAB2	1379	21
7	103007968	0.000368189	PSMC2	1358	1
7	116770634	0.000725689	ST7	1378	2
19	14262323	0.002181818	LPHN1	1375	6
3	118644975	0.000368732	IGSF11	1356	1
20	37257583	0.001106195	ARHGAP40	1356	3
10	124457845	0.000362845	C10orf120	1378	1
2	73172210	0.000374813	SFXN5	1334	1
4	96051148	0.000733138	BMPR1B	1364	2
11	13466637	0.000363108	BTBD10	1377	1
6	131973755	0.002538071	ENPP3	1379	7
6	165844929	0.000364697	PDE10A	1371	1
1	38269989	0.000363636	YRDC	1375	1
5	89703535	0.000367377	CETN3	1361	1
2	73996399	0.000364964	DUSP11	1370	1
9	129377759	0.000735835	LMX1B	1359	2
17	40872292	0.000726216	EZH1	1377	2
20	1277797	0.001831502	SNPH	1365	4
1	113657054	0.000728332	LRIG2	1373	2

17	37604089	0.000725163	MED1	1379	2
18	51888041	0.000726216	C18orf54	1377	2
9	130569760	0.000730994	FPGS	1368	2
5	147661731	0.000365497	SPINK13	1368	1
14	94780663	0.000376223	SERPINA6	1329	1
19	40327272	0.000366569	FBL	1364	1
19	856000	0.000744602	ELANE	1343	2
4	76841943	0.000362582	NAAA	1379	1
5	16477828	0.000371747	FAM134B	1345	1
19	54711306	0.000368189	RPS9	1358	1
19	51656411	0.000366838	SIGLEC7	1363	1
2	24240228	0.000371195	MFSD2B	1347	1
12	76741957	0.000378215	BBS10	1322	1
16	1810424	0.002178649	MAPK8IP3	1377	5
15	41961531	0.008112094	MGA	1356	20
19	6312182	0.000381388	ACER1	1311	1
16	30021450	0.00037092	DOC2A	1348	1
11	134119081	0.000725163	THYN1	1379	2
16	9210738	0.000367107	C16orf72	1362	1
15	90784964	0.000362845	GDPGP1	1378	1
19	39433347	0.000366032	FBXO17	1366	1
1	145439888	0.001854599	TXNIP	1348	5
8	125559320	0.000380807	NDUFB9	1313	1
3	52005551	0.000742942	ABHD14B	1346	2
20	47732328	0.002538071	STAU1	1379	7
12	10999707	0.000362845	PRR4	1378	1
3	50197093	0.002178649	SEMA3F	1377	6
1	241671977	0.001814224	FH	1378	5
19	7670148	0.001452433	CAMSAP3	1377	4
19	41931700	0.00399419	B3GNT8	1377	8
2	29140852	0.000375657	WDR43	1331	1
6	31854620	0.002175489	EHMT2	1379	6
9	2811507	0.001812908	KIAA0020	1379	5
2	128471361	0.001812908	WDR33	1379	5
5	79616771	0.000728332	SPZ1	1373	2
2	74701753	0.002175489	CCDC142	1379	6
22	42342472	0.000372856	CENPM	1341	1
19	50411887	0.001832845	NUP62	1364	5
12	58218018	0.000728863	CTDSP2	1372	2
14	20840891	0.006526468	TEP1	1379	17
10	68687470	0.000362845	LRRTM3	1378	1
17	47875758	0.000363636	KAT7	1375	1
6	2892182	0.0003663	SERPINB9	1365	1
21	47611865	0.002181818	LSS	1375	6
4	126237771	0.019216824	FAT4	1379	52
6	35258065	0.002539913	ZNF76	1378	7
17	8079594	0.000373692	TMEM107	1338	1
1	32557392	0.000733676	TMEM39B	1363	2

18	19359603	0.001814224	MIB1	1378	5
6	143823557	0.000726744	FUCA2	1376	2
15	75648512	0.002900653	MAN2C1	1379	8
16	677369	0.000367107	RAB40C	1362	1
8	113266499	0.009789703	CSMD3	1379	26
14	94909547	0.001815541	SERPINA11	1377	5
21	27097542	0.000366032	ATP5J	1366	1
8	110394715	0.01179941	PKHD1L1	1356	30
5	55063759	0.00181686	DDX4	1376	5
19	56156186	0.000380228	ZNF581	1315	1
6	25653643	0.002539913	SCGN	1378	6
19	3586847	0.00073692	GIPC3	1357	2
5	138282896	0.002178649	SIL1	1377	6
19	12816158	0.000379075	TNPO2	1319	1
12	55039492	0.000364166	DCD	1373	1
19	19387836	0.001118568	SUGP1	1341	2
1	1267016	0.000739645	TAS1R3	1352	2
1	6640752	0.000726744	ZBTB48	1376	2
4	169300549	0.002539913	DDX60L	1378	7
1	202569556	0.00073046	SYT2	1369	2
2	228388510	0.001814224	AGFG1	1378	5
2	202899870	0.001102941	FZD7	1360	3
19	37203321	0.000726216	ZNF567	1377	2
17	45412656	0.002178649	EFCAB13	1377	6
10	88220239	0.002175489	WAPAL	1379	6
18	59483224	0.000727802	RNF152	1374	2
3	148586795	0.002538071	CPA3	1379	6
1	236906244	0.002177068	ACTN2	1378	6
16	20352516	0.001814224	UMOD	1378	5
11	62361842	0.002178649	MTA2	1377	5
15	90245112	0.002177068	WDR93	1378	5
11	31812282	0.00074184	PAX6	1348	2
2	188217005	0.001452433	CALCRL	1377	3
16	77913084	0.000363108	VAT1L	1377	1
14	70517729	0.003263234	SLC8A3	1379	9
16	31075416	0.000730994	ZNF668	1368	2
11	119228291	0.002538071	USP2	1379	7
17	66303772	0.000727802	ARSG	1374	2
8	37593928	0.00037679	RP11-863K10.7	1327	1
7	121717949	0.001090116	AASS	1376	3
12	109577314	0.011240029	ACACB	1379	28
10	64943222	0.00906454	JMJD1C	1379	21
11	113264250	0.004059041	ANKK1	1355	10
15	89169954	0.000370645	AEN	1349	1
1	15386697	0.000735294	KAZN	1360	2
3	132050553	0.002175489	ACPP	1379	6
11	61121308	0.000367377	CYB561A3	1361	1
10	73579329	0.000728332	PSAP	1373	2

1	79093683	0.001088534	IFI44L	1378	3
19	16497035	0.000725689	EPS15L1	1378	2
2	128028924	0.002175489	ERCC3	1379	6
12	88447469	0.008849558	CEP290	1356	23
2	39025563	0.00688905	DHX57	1379	15
15	90902126	0.000725689	ZNF774	1378	2
2	179395452	0.112037708	TTN	1379	293
14	79181137	0.005801305	NRXN3	1379	15
6	43487117	0.000726216	POLR1C	1377	2
16	24573389	0.005801305	RBBP6	1379	15
4	38775122	0.001452433	TLR10	1377	4
15	89070933	0.002212389	DET1	1356	6
15	51750908	0.005801305	DMXL2	1379	15
1	172501707	0.006163887	SUCO	1379	16
7	140402764	0.000733138	NDUFB2	1364	2
2	109408147	0.000726216	CCDC138	1377	2
15	91448918	0.005442671	MAN2A2	1378	15
2	10863000	0.000729395	ATP6V1C2	1371	2
2	44502907	0.004713561	SLC3A1	1379	12
15	42598812	0.005076142	GANC	1379	12
6	112435953	0.002902758	LAMA4	1378	7
4	186350612	0.000739645	C4orf47	1352	2
10	92675592	0.000727802	ANKRD1	1374	2
4	157693885	0.000729395	PDGFC	1371	2
9	100843161	0.001452433	NANS	1377	4
19	40947685	0.001121915	SERTAD3	1337	2
15	85326251	0.005438724	ZNF592	1379	15
9	35698442	0.007976795	TLN1	1379	21
19	48523015	0.000727273	ELSPBP1	1375	2
11	5905718	0.000725163	OR52E4	1379	2
11	74716873	0.000743494	NEU3	1345	2
1	155324305	0.006526468	ASH1L	1379	17
8	63930051	0.000725163	GGH	1379	2
17	8216406	0.001087745	ARHGEF15	1379	3
14	22037998	0.000728863	OR10G3	1372	2
9	34256087	0.007743363	KIF24	1356	17
17	77755900	0.001831502	CBX2	1365	5
7	73657477	0.000725689	RFC2	1378	2
3	119361361	0.001093294	POPDC2	1372	3
18	28649117	0.004713561	DSC2	1379	12
4	156268946	0.002904866	MAP9	1377	7
6	36178260	0.000726744	BRPF3	1376	2
3	69027572	0.001090909	EOGT	1375	3
7	76828878	0.000731529	FGL2	1367	2
6	38690635	0.017766497	DNAH8	1379	41
2	191840542	0.010877447	STAT1	1379	26
19	52031441	0.001087745	SIGLEC6	1379	2
10	76719732	0.003988397	KAT6B	1379	11

13	20233249	0.001089325	MPHOSPH8	1377	3
6	32011528	0.00620438	TNXB	1370	15
7	100061132	0.000744048	C7orf61	1344	1
7	134916756	0.000726216	STRA8	1377	2
6	29275307	0.000729927	OR14J1	1370	2
5	135209772	0.000744048	SLC25A48	1344	2
10	45430256	0.000744048	TMEM72	1344	2
9	130885283	0.000732064	PTGES2	1366	2
17	11522985	0.009427121	DNAH9	1379	26
20	52188312	0.002900653	ZNF217	1379	8
13	92101090	0.000726744	GPC5	1376	2
2	10187963	0.000735835	KLF11	1359	2
16	57059309	0.003625816	NLRC5	1379	9
17	48734474	0.005801305	ABCC3	1379	11
7	44246017	0.000726744	YKT6	1376	2
8	39806777	0.001107829	IDO2	1354	3
16	1841340	0.00074184	IGFALS	1348	2
14	77491827	0.000726216	IRF2BPL	1377	2
4	1902448	0.002538071	WHSC1	1379	7
3	182662916	0.000726744	DCUN1D1	1376	2
9	77339641	0.006526468	TRPM6	1379	17
20	20512426	0.006268437	RALGAPA2	1356	14
20	25239873	0.004350979	PYGB	1379	12
20	44003822	0.000747384	TP53TG5	1338	2
11	73933379	0.000738007	PPME1	1355	2
2	172928486	0.000728863	METAP1D	1372	2
11	130775847	0.001454545	SNX19	1375	4
6	146920221	0.005904059	ADGB	1355	13
8	66617048	0.000729395	MTFR1	1371	2
12	101679408	0.008701958	UTP20	1379	23
5	82789524	0.007614213	VCAN	1379	20
2	31558873	0.005438724	XDH	1379	13
5	140262615	0.002541757	PCDHA13	1377	7
17	38911276	0.000725163	KRT25	1379	2
11	118869758	0.000726216	CCDC84	1377	2
12	131466564	0.002178649	GPR133	1377	6
1	209956195	0.000727802	C1orf74	1374	2
4	141545513	0.002212389	TBC1D9	1356	5
2	220085910	0.003265602	ATG9A	1378	8
10	112039825	0.000735294	MXI1	1360	1
2	202248864	0.001812908	TRAK2	1379	5
12	8670793	0.00073046	CLEC4D	1369	2
8	105456506	0.000726744	DPYS	1376	2
3	16242248	0.002545455	GALNT15	1375	7
12	133202278	0.00906454	POLE	1379	19
12	63083517	0.000740192	PPM1H	1351	2
9	139726725	0.003318584	RABL6	1356	7
2	86847469	0.000734214	CHMP3	1362	1

16	2282190	0.001097293	E4F1	1367	3
1	77883330	0.000727273	AK5	1375	2
1	230810860	0.000725163	COG2	1379	2
6	159026366	0.000726744	TMEM181	1376	2
7	24844049	0.005076142	OSBPL3	1379	12
19	35989800	0.001451379	DMKN	1378	4
4	8217934	0.00399419	SH3TC1	1377	11
14	93263964	0.001090909	GOLGA5	1375	2
5	140552901	0.002900653	PCDHB7	1379	8
14	21769201	0.005899705	RPGRIP1	1356	15
1	84372059	0.003267974	TTLL7	1377	5
5	7866768	0.000725689	FASTKD3	1378	2
1	241031901	0.000728863	RGS7	1372	2
8	94770715	0.004354136	TMEM67	1378	11
8	27641534	0.001450326	ESCO2	1379	3
8	104778647	0.007251632	RIMS2	1379	19
1	20964425	0.001454545	PINK1	1375	4
15	50763982	0.003263234	USP8	1379	4
2	224766036	0.000728332	WDFY1	1373	2
4	25769162	0.002584934	SEL1L3	1354	7
6	25917208	0.000725163	SLC17A2	1379	2
11	47435184	0.000727802	SLC39A13	1374	2
1	103345261	0.008339376	COL11A1	1379	19
2	44548965	0.002902758	PREPL	1378	8
7	7398424	0.005438724	COL28A1	1379	14
19	39866374	0.000725689	SAMD4B	1378	2
6	149918224	0.001087745	KATNA1	1379	3
20	40049157	0.004713561	CHD6	1379	13
5	68578645	0.001089325	CCDC125	1377	3
14	68217747	0.007251632	ZFYVE26	1379	17
9	115928379	0.003318584	FKBP15	1356	8
9	5300102	0.000725163	RLN2	1379	2
20	44691411	0.001450326	NCOA5	1379	3
14	31762783	0.005899705	HEATR5A	1356	15
19	48374798	0.000727802	SULT2A1	1374	2
14	75497277	0.007614213	MLH3	1379	20
4	4425297	0.001088534	STX18	1378	3
9	100070293	0.005805515	CCDC180	1378	15
1	204400878	0.003625816	PIK3C2B	1379	10
6	33245234	0.001098901	B3GALT4	1365	3
5	16668424	0.006637168	MYO10	1356	16
17	43481445	0.003284672	ARHGAP27	1370	4
20	33470726	0.002538071	ACSS2	1379	7
4	83602004	0.000726744	SCD5	1376	2
4	55955565	0.003263234	KDR	1379	8
2	233897400	0.001089325	NEU2	1377	3
15	33091077	0.005530973	FMN1	1356	14
10	74952320	0.005899705	FAM149B1	1356	11

12	7088721	0.000726744	LPCAT3	1376	2
16	4847752	0.000751315	ROGDI	1331	2
8	125500872	0.001451379	TATDN1	1378	4
19	9965104	0.00181686	OLFM2	1376	5
8	59329474	0.001458789	UBXN2B	1371	4
9	15571711	0.006163887	CCDC171	1379	14
19	6772883	0.000727802	VAV1	1374	2
12	23687304	0.002538071	SOX5	1379	7
2	48018077	0.007976795	MSH6	1379	20
8	37702073	0.002900653	BRF2	1379	7
1	33058944	0.002538071	ZBTB8A	1379	7
9	5065024	0.001088534	JAK2	1378	3
11	11374016	0.000725163	CSNK2A3	1379	2
5	43609434	0.004713561	NNT	1379	10
1	204587062	0.002188184	LRRN2	1371	6
2	118864346	0.000726744	INSIG2	1376	2
17	74729198	0.000737463	METTL23	1356	2
3	63967945	0.006163887	ATXN7	1379	13
8	124089430	0.004713561	TBC1D31	1379	13
10	103897686	0.006163887	PPRC1	1379	15
1	47016749	0.001110289	KNCN	1351	3
9	113148231	0.0070059	SVEP1	1356	19
8	144657009	0.003277495	NAPRT1	1373	9
2	32475449	0.000728863	NLRC4	1372	2
16	69703960	0.005076142	NFAT5	1379	13
15	45559948	0.000725689	SLC28A2	1378	2
5	123979211	0.003625816	ZNF608	1379	10
10	12259438	0.001088534	CDC123	1378	3
17	10348144	0.008339376	MYH4	1379	18
14	70924554	0.000725163	ADAM21	1379	2
2	43871916	0.005801305	PLEKHH2	1379	16
6	86181024	0.001088534	NT5E	1378	3
19	1255568	0.00073692	MIDN	1357	2
11	18418424	0.000725689	LDHA	1378	2
6	112382408	0.001089325	WISP3	1377	3
22	20100206	0.002541757	TRMT2A	1377	7
1	159900496	0.003263234	IGSF9	1379	9
1	158224915	0.000727273	CD1A	1375	2
22	50969667	0.000746269	ODF3B	1340	2
1	184764251	0.00688905	FAM129A	1379	15
1	153636894	0.000726216	ILF2	1377	2
7	94029514	0.002539913	COL1A2	1378	7
5	75757414	0.006531205	IQGAP2	1378	17
3	56597815	0.004713561	CCDC66	1379	13
17	10295272	0.004350979	MYH8	1379	11
19	39688876	0.001096491	NCCRP1	1368	3
13	42866571	0.008339376	AKAP11	1379	20
1	7723914	0.005438724	CAMTA1	1379	14

22	35659208	0.001451379	HMGXB4	1378	3
20	46252717	0.003625816	NCOA3	1379	10
19	54723028	0.001102131	LILRA6	1361	1
19	54723028	0.001102131	LILRB3	1361	1
14	65216735	0.005438724	SPTB	1379	13
3	45515795	0.000725689	LARS2	1378	2
17	10628425	0.001090116	TMEM220	1376	3
10	35437337	0.000726744	CREM	1376	2
1	243289848	0.000739645	CEP170	1352	2
2	206991263	0.003263234	NDUFS1	1379	9
5	71482580	0.005438724	MAP1B	1379	14
12	123200801	0.000731529	HCAR3	1367	2
17	16525954	0.003263234	ZNF624	1379	7
20	61834779	0.000728332	YTHDF1	1373	2
12	49218962	0.000735294	CACNB3	1360	2
3	121158853	0.008701958	POLQ	1379	21
11	55860938	0.002900653	OR8I2	1379	7
10	22055190	0.001089325	DNAJC1	1377	3
2	32875255	0.002902758	TTC27	1378	7
14	74420179	0.001089325	COQ6	1377	3
15	101524040	0.006163887	LRRK1	1379	16
6	33371551	0.002541757	KIFC1	1377	7
15	57910273	0.000728332	MYZAP	1373	2
5	14291023	0.005438724	TRIO	1379	12
3	52505911	0.005801305	NISCH	1379	14
18	56585721	0.000728863	ZNF532	1372	2
15	48707851	0.003267974	FBN1	1377	9
15	48500253	0.002949853	SLC12A1	1356	7
1	109792835	0.005801305	CELSR2	1379	13
19	47910375	0.001088534	MEIS3	1378	3
3	28454762	0.001090909	ZCWPW2	1375	3
16	70166163	0.001107011	PDPR	1355	3
3	93722665	0.000727802	ARL13B	1374	2
17	26851599	0.000727802	FOXN1	1374	2
13	49281649	0.001087745	CYSLTR2	1379	3
17	39502402	0.001091703	KRT33A	1374	3
17	76886817	0.00295203	DDC8	1355	7
7	134212703	0.001093294	AKR1B10	1372	3
3	127295697	0.001456664	TPRA1	1373	2
6	32163288	0.002902758	NOTCH4	1378	8
10	50666941	0.007251632	ERCC6	1379	17
11	18731033	0.002538071	IGSF22	1379	7
2	48573639	0.002900653	FOXN2	1379	8
19	13050274	0.001089325	CALR	1377	3
12	85674208	0.001087745	ALX1	1379	3
17	2866743	0.003321033	RAP1GAP2	1355	6
17	17881020	0.004428044	LRRC48	1355	11
1	156707873	0.001089325	MRPL24	1377	3

1	43869362	0.005438724	SZT2	1379	14
6	31593593	0.005801305	PRRC2A	1379	15
2	33809923	0.002900653	FAM98A	1379	8
3	52537549	0.008701958	STAB1	1379	19
11	73007675	0.001089325	P2RY6	1377	3
19	42582798	0.001098901	ZNF574	1365	3
10	15258089	0.001814224	FAM171A1	1378	4
15	33825513	0.010324484	RYR3	1356	25
1	169204377	0.000728332	NME7	1373	2
4	62598625	0.005899705	LPHN3	1356	16
12	110924160	0.001087745	FAM216A	1379	3
10	127668787	0.001089325	FANK1	1377	2
6	155450559	0.00616836	TIAM2	1378	14
4	3487321	0.001106195	DOK7	1356	3
21	45668960	0.000737463	DNMT3L	1356	2
2	153515505	0.001843658	PRPF40A	1356	5
5	177546804	0.001099707	N4BP3	1364	3
5	176951539	0.001476015	FAM193B	1355	4
15	49031225	0.006163887	CEP152	1379	15
8	144990946	0.007614213	PLEC	1379	21
3	111602931	0.004713561	PHLDB2	1379	11
1	173910434	0.003988397	RC3H1	1379	11
3	48732469	0.001108647	IP6K2	1353	3
9	102888688	0.004713561	INVS	1379	12
11	5537263	0.001088534	UBQLNL	1378	3
7	72985195	0.00073046	TBL2	1369	2
12	122826001	0.001087745	CLIP1	1379	3
5	148386680	0.005076142	SH3TC2	1379	14
12	123645363	0.004713561	MPHOSPH9	1379	12
19	18284728	0.000743494	IFI30	1345	2
20	30053406	0.001094092	DEFB124	1371	3
18	9513090	0.000729395	RALBP1	1371	2
22	46664424	0.003267974	TTC38	1377	9
12	125267302	0.001455604	SCARB1	1374	2
4	84194676	0.001109467	COQ2	1352	3
6	110746212	0.003263234	SLC22A16	1379	8
12	49397033	0.001088534	PRKAG1	1378	3
17	78264418	0.00688905	RNF213	1379	17
3	49845218	0.002538071	UBA7	1379	6
18	65178274	0.00547046	DSEL	1371	15
10	135369156	0.001091703	SYCE1	1374	3
17	10608747	0.000725689	ADPRM	1378	2
16	66420945	0.002543605	CDH5	1376	7
2	37215893	0.007251632	HEATR5B	1379	19
4	56818301	0.006526468	CEP135	1379	18
10	97443344	0.003644315	TCTN3	1372	2
1	200708971	0.006526468	CAMSAP2	1379	18
17	8272535	0.001098097	KRBA2	1366	3

10	94353168	0.001452433	KIF11	1377	4
15	55916622	0.001452433	PRTG	1377	4
7	128138094	0.000726216	METTL2B	1377	2
7	100280964	0.003644315	GIGYF1	1372	9
19	14023240	0.004363636	CC2D1A	1375	10
2	98349360	0.000737463	ZAP70	1356	2
15	38591705	0.000726216	SPRED1	1377	2
5	34922842	0.001090116	BRIX1	1376	2
8	27320566	0.000727273	CHRNA2	1375	2
1	55118895	0.003988397	MROH7	1379	10
8	20068116	0.001089325	ATP6V1B2	1377	3
4	52927037	0.002904866	SPATA18	1377	7
2	121554990	0.00616836	GLI2	1378	17
14	21623251	0.001452433	OR5AU1	1377	4
12	44913854	0.003631082	NELL2	1377	7
2	238242173	0.007251632	COL6A3	1379	18
12	95887855	0.00073046	METAP2	1369	2
8	146076594	0.000733138	COMMD5	1364	2
11	63961744	0.001091703	STIP1	1374	3
1	26650716	0.00182083	AIM1L	1373	5
5	141993608	0.000732601	FGF1	1365	2
5	86690892	0.001088534	CCNH	1378	3
11	8943032	0.001089325	C11orf16	1377	3
1	182821419	0.003628447	DHX9	1378	8
16	27238143	0.000754148	NSMCE1	1326	2
4	83772755	0.005076142	SEC31A	1379	12
19	10943692	0.001814224	TMED1	1378	5
7	107234411	0.001451379	BCAP29	1378	4
1	905971	0.000733138	PLEKHN1	1364	2
20	44180660	0.001087745	WFDC8	1379	2
17	15965543	0.003991292	NCOR1	1378	10
11	51411684	0.001092498	OR4A5	1373	3
11	119056204	0.002900653	PDZD3	1379	8
2	110905548	0.001451379	NPHP1	1378	4
12	111801137	0.000749625	FAM109A	1334	2
6	143074503	0.005076142	HIVEP2	1379	13
3	151538210	0.000726744	AADAC	1376	2
8	81411754	0.000739098	ZBTB10	1353	2
11	93402004	0.005530973	KIAA1731	1356	15
20	44515247	0.000730994	SPATA25	1368	2
11	62561820	0.001088534	NXF1	1378	3
2	113007812	0.001107011	ZC3H8	1355	3
21	47329365	0.001088534	PCBP3	1378	3
10	134885485	0.000732601	GPR123	1365	2
9	86276826	0.003263234	UBQLN1	1379	9
9	91150561	0.000739098	NXNL2	1353	2
19	42818482	0.002902758	TMEM145	1378	8
4	628504	0.003988397	PDE6B	1379	11

12	113742124	0.003636364	SLC8B1	1375	9
19	35823550	0.000725689	CD22	1378	2
6	42934026	0.001090909	PEX6	1375	3
3	57994484	0.007614213	FLNB	1379	18
1	94032984	0.003263234	BCAR3	1379	8
13	96361481	0.000729395	DNAJC3	1371	2
1	182617405	0.001088534	RGS8	1378	3
16	4407245	0.002180233	CORO7	1376	6
16	4407245	0.002180233	CORO7-PAM16	1376	6
10	95848984	0.003263234	PLCE1	1379	9
7	42004062	0.004350979	GLI3	1379	12
3	196663886	0.001090909	NCBP2	1375	3
1	227842303	0.000739098	ZNF678	1353	2
9	134003065	0.004713561	NUP214	1379	13
16	700114	0.004723837	WDR90	1376	11
1	43300814	0.001090116	ERMAP	1376	3
17	48776878	0.001088534	ANKRD40	1378	3
14	103804741	0.000725689	EIF5	1378	2
19	5206799	0.004354136	PTPRS	1378	12
22	43089281	0.000737463	A4GALT	1356	2
1	38450385	0.000729395	SF3A3	1371	2
4	155249299	0.005076142	DCHS2	1379	14
17	40342249	0.001094092	GHDC	1371	3
3	119526095	0.000727273	NR1I2	1375	2
2	234590655	0.001450326	UGT1A7	1379	4
9	34635664	0.000738552	SIGMAR1	1354	2
11	6452577	0.001812908	HPX	1379	5
5	176939517	0.001090116	DDX41	1376	3
1	236714209	0.006526468	HEATR1	1379	17
1	20637119	0.005162242	VWA5B1	1356	14
2	206587255	0.003263234	NRP2	1379	8
5	132159617	0.000728332	SHROOM1	1373	2
5	133873690	0.003267974	JADE2	1377	7
17	3386854	0.001089325	ASPA	1377	3
17	17720336	0.001103753	SREBF1	1359	3
2	160628550	0.00688905	LY75	1379	18
11	59480774	0.000726744	OR10V1	1376	2
6	42993026	0.001455604	RRP36	1374	4
4	100470438	0.000725689	TRMT10A	1378	2
16	85015491	0.001090116	ZDHHC7	1376	3
11	125769436	0.000725163	HYLS1	1379	2
8	125568622	0.001089325	MTSS1	1377	3
5	176002084	0.003628447	CDHR2	1378	10
1	215802173	0.017403916	USH2A	1379	44
12	133148904	0.001111111	FBRSL1	1350	3
10	74894453	0.001815541	ECD	1377	4
12	9822353	0.001090909	CLEC2D	1375	3
12	105531737	0.001087745	KIAA1033	1379	3

14	101348271	0.001090116	RTL1	1376	3
6	25726613	0.000726216	HIST1H2AA	1377	2
14	88652037	0.000726216	KCNK10	1377	2
2	135738688	0.001450326	MAP3K19	1379	4
10	103559178	0.000725163	MGEA5	1379	2
17	29848332	0.000731529	RAB11FIP4	1367	2
14	77292945	0.002212389	C14orf166B	1356	6
1	158576403	0.002615845	OR10Z1	1338	7
15	90802017	0.000726744	TTLL13	1376	2
11	125848224	0.005076142	CDON	1379	13
10	126453999	0.000725163	METTL10	1379	2
1	149884816	0.001090909	SV2A	1375	2
17	5291111	0.003988397	NUP88	1379	10
1	201351402	0.000726216	LAD1	1377	2
12	132445354	0.005079826	EP400	1378	14
21	37418268	0.000725163	SETD4	1379	2
15	48056215	0.002900653	SEMA6D	1379	8
2	85777143	0.001453488	GGCX	1376	3
12	124421677	0.001087745	CCDC92	1379	3
6	88210933	0.001087745	SLC35A1	1379	3
7	84636128	0.003263234	SEMA3D	1379	8
18	44656668	0.001090116	HDHD2	1376	3
3	174814708	0.005899705	NAALADL2	1356	14
17	47780342	0.000728863	SLC35B1	1372	2
11	118404987	0.000727802	TMEM25	1374	2
10	123842500	0.006163887	TACC2	1379	14
17	19641689	0.000729395	ALDH3A1	1371	2
20	18471044	0.000725689	RBBP9	1378	2
21	19628975	0.001450326	CHODL	1379	4
6	41243933	0.000725689	TREM1	1378	2
22	20760611	0.001088534	ZNF74	1378	3
2	145154073	0.001088534	ZEB2	1378	3
17	40689486	0.002538071	NAGLU	1379	7
17	56647841	0.006163887	TEX14	1379	15
7	142561938	0.005079826	EPHB6	1378	14
13	29275638	0.003628447	SLC46A3	1378	8
11	69457844	0.000735835	CCND1	1359	2
16	58201665	0.001089325	CSNK2A2	1377	3
19	54666774	0.000727273	TMC4	1375	2
3	39373862	0.000725163	CCR8	1379	2
1	145555756	0.005438724	ANKRD35	1379	11
1	204501356	0.000725689	MDM4	1378	2
17	40996945	0.002900653	AOC2	1379	8
2	108614432	0.000725163	SLC5A7	1379	2
11	64884003	0.001093294	ZNHIT2	1372	3
2	234701464	0.00295203	MROH2A	1355	7
8	8747824	0.004350979	MFHAS1	1379	11
2	80085198	0.000726216	CTNNA2	1377	2

6	96651089	0.000725163	FUT9	1379	2
5	140237599	0.001129518	PCDHA10	1328	2
3	111887758	0.003625816	SLC9C1	1379	10
3	48679812	0.005805515	CELSR3	1378	16
9	136081792	0.000734754	OBP2B	1361	2
3	135720603	0.005801305	PPP2R3A	1379	14
16	17211595	0.002175489	XYLT1	1379	6
2	39983099	0.001090116	THUMPD2	1376	2
20	36983781	0.001088534	LBP	1378	3
1	46870716	0.000726216	FAAH	1377	2
4	57776889	0.003988397	REST	1379	10
10	101643773	0.003625816	DNMBP	1379	10
2	189899730	0.005076142	COL5A2	1379	14
6	109764062	0.001094092	SMPD2	1371	3
13	33016584	0.003263234	N4BP2L2	1379	9
15	77756701	0.001451379	HMG20A	1378	4
7	120629725	0.003988397	CPED1	1379	11
10	128768977	0.005530973	DOCK1	1356	15
11	71715856	0.004350979	NUMA1	1379	12
3	113295768	0.002900653	SIDT1	1379	8
1	11249772	0.000725163	ANGPTL7	1379	2
12	123471907	0.000729395	PITPNM2	1371	2
15	41029864	0.003263234	RMDN3	1379	7
7	100087050	0.001113586	NYAP1	1347	2
11	118184529	0.000731529	CD3E	1367	2
9	84608138	0.001477105	SPATA31D1	1354	4
5	35644502	0.004713561	SPEF2	1379	11
9	127765758	0.001088534	SCAI	1378	3
1	205760788	0.001814224	SLC41A1	1378	5
12	18443860	0.004424779	PIK3C2G	1356	12
20	20051511	0.005801305	C20orf26	1379	12
1	16271598	0.000726744	ZBTB17	1376	2
7	38259219	0.00073046	STARD3NL	1369	2
17	28539872	0.001088534	SLC6A4	1378	3
5	178555001	0.000728332	ADAMTS2	1373	2
18	61261605	0.000725163	SERPINB13	1379	2
14	68028740	0.00479351	PLEKHH1	1356	13
14	92343953	0.001450326	FBLN5	1379	4
1	152080559	0.007251632	TCHH	1379	20
15	45426463	0.005438724	DUOX1	1379	13
16	49669701	0.001094891	ZNF423	1370	3
10	102672886	0.005801305	FAM178A	1379	14
11	6867020	0.000725163	OR10A5	1379	2
1	23720422	0.000743494	TCEA3	1345	2
17	18148475	0.005801305	FLII	1379	15
3	185229396	0.000725163	LIPH	1379	2
3	48453315	0.002900653	PLXNB1	1379	8
19	52658573	0.002904866	ZNF836	1377	8

3	156411871	0.001450326	TIPARP	1379	4
11	902167	0.001090116	CHID1	1376	3
17	8006659	0.003265602	ALOXE3	1378	7
19	40900096	0.005438724	PRX	1379	13
5	140739980	0.003687316	PCDHGB2	1356	10
2	99154342	0.000739645	INPP4A	1352	2
1	118479483	0.002900653	WDR3	1379	8
13	103279433	0.001088534	TPP2	1378	3
5	126141368	0.001454545	LMNB1	1375	4
1	32050544	0.000729395	TINAGL1	1371	2
2	71591191	0.002902758	ZNF638	1378	8
10	106124634	0.000734214	CCDC147	1362	2
11	124120750	0.00074129	OR8G1	1349	2
10	71874086	0.001454545	AIFM2	1375	4
5	112850981	0.003625816	YTHDC2	1379	9
16	56903727	0.004350979	SLC12A3	1379	10
12	109921401	0.005079826	UBE3B	1378	14
5	53814558	0.000734214	SNX18	1362	2
20	34055229	0.006535948	CEP250	1377	17
5	74676937	0.001088534	COL4A3BP	1378	3
8	92983053	0.002538071	RUNX1T1	1379	7
21	34951801	0.001453488	DONSON	1376	4
9	74485101	0.000726744	ABHD17B	1376	2
7	130002813	0.001087745	CPA5	1379	3
5	37293060	0.005076142	NUP155	1379	14
11	122726431	0.000726744	CRTAM	1376	2
14	23392301	0.000727273	PRMT5	1375	2
16	70975670	0.001093294	HYDIN	1372	3
19	1043183	0.003625816	ABCA7	1379	10
11	428475	0.001104566	ANO9	1358	3
19	57931005	0.000725689	ZNF17	1378	2
16	84351925	0.001098901	WFDC1	1365	3
19	17831765	0.001094092	MAP1S	1371	3
12	4835703	0.003631082	GALNT8	1377	10
2	20451371	0.001450326	PUM2	1379	4
3	49924973	0.003628447	MST1R	1378	9
6	37411793	0.001451379	CMTR1	1378	4
18	67687900	0.004350979	RTTN	1379	12
15	89002977	0.000726216	MRPL46	1377	2
9	34088427	0.000725163	DCAF12	1379	2
20	3002847	0.000727273	PTPRA	1375	2
5	132216819	0.00688905	AFF4	1379	16
3	38080810	0.006163887	DLEC1	1379	17
12	30862982	0.003263234	CAPRIN2	1379	9
12	53701643	0.002539913	AAAS	1378	7
18	42281783	0.002538071	SETBP1	1379	7
2	100017770	0.005438724	REV1	1379	14
20	56179783	0.001087745	ZBP1	1379	3

7	127950956	0.003625816	RBM28	1379	9
3	47030201	0.008849558	NBEAL2	1356	23
7	139754477	0.000726216	PARP12	1377	2
4	107016764	0.001094891	TBCK	1370	2
19	9639355	0.001087745	ZNF426	1379	3
12	65110577	0.000726216	GNS	1377	2
18	47352866	0.005438724	MYO5B	1379	15
2	55800782	0.001088534	SMEK2	1378	3
3	124802898	0.003631082	SLC12A8	1377	10
11	581571	0.004800591	PHRF1	1354	13
7	107315403	0.005801305	SLC26A4	1379	14
1	155723183	0.005438724	GON4L	1379	14
1	172002259	0.001477105	DNM3	1354	4
21	45786742	0.005079826	TRPM2	1378	12
12	56334729	0.001452433	DGKA	1377	4
22	46733822	0.000728863	TRMU	1372	2
12	53722740	0.001116902	SP7	1343	3
7	43659238	0.000725689	STK17A	1378	2
20	61941793	0.001111935	COL20A1	1349	3
7	48018022	0.000725689	HUS1	1378	2
16	50733746	0.003265602	NOD2	1378	9
5	34024020	0.000725689	C1QTNF3	1378	2
11	6411947	0.003988397	SMPD1	1379	10
10	115596844	0.005801305	DCLRE1A	1379	13
4	71200949	0.001451379	CABS1	1378	3
19	7704638	0.002906977	STXBP2	1376	8
2	201467047	0.005442671	AOX1	1378	12
12	50344859	0.001135503	AQP2	1321	3
16	27221721	0.001451379	KDM8	1378	3
14	105404568	0.005899705	AHNAK2	1356	14
5	141019572	0.000731529	RELL2	1367	2
16	29979444	0.000727273	TMEM219	1375	2
1	175957518	0.001090909	RFWD2	1375	3
15	64792346	0.003991292	ZNF609	1378	11
16	46744612	0.003988397	MYLK3	1379	10
18	3067469	0.006268437	MYOM1	1356	14
3	112255440	0.000729395	ATG3	1371	2
2	73486323	0.000739645	FBXO41	1352	2
2	7033826	0.000726744	RSAD2	1376	2
2	190322053	0.002538071	WDR75	1379	6
18	22804434	0.004713561	ZNF521	1379	13
12	94620481	0.001090909	PLXNC1	1375	3
5	176334174	0.001088534	UIMC1	1378	3
17	648389	0.004428044	GEMIN4	1355	12
12	99446973	0.005530973	ANKS1B	1356	11
1	6341235	0.000735294	ACOT7	1360	2
7	63981783	0.001089325	ZNF680	1377	3
4	75067039	0.001458789	MTHFD2L	1371	4

8	42024818	0.000725163	AP3M2	1379	2
5	67576535	0.001089325	PIK3R1	1377	3
14	24606741	0.000725689	PSME1	1378	2
1	36752001	0.003628447	THRAP3	1378	9
16	69368488	0.001089325	COG8	1377	3
7	80285878	0.004720407	CD36	1377	12
12	77257004	0.000725163	CSRP2	1379	2
16	31485201	0.001451379	TGFB1I1	1378	4
16	53190183	0.006268437	CHD9	1356	16
9	138709908	0.003687316	CAMSAP1	1356	10
13	52603137	0.003267974	UTP14C	1377	8
1	23418245	0.002902758	LUZP1	1378	7
3	122632445	0.001093294	SEMA5B	1372	3
2	3726110	0.001106195	ALLC	1356	2
13	46801988	0.000738007	LRRC63	1355	2
11	129725726	0.000728863	TMEM45B	1372	2
3	38595877	0.003997093	SCN5A	1376	11
18	29036963	0.001814224	DSG3	1378	5
13	113838701	0.000727273	PCID2	1375	2
6	31545172	0.000725689	TNF	1378	2
17	34182720	0.001088534	C17orf66	1378	3
19	12358576	0.003263234	ZNF44	1379	8
20	48600510	0.000735835	SNAI1	1359	2
17	41219700	0.005801305	BRCA1	1379	16
2	197767346	0.001088534	PGAP1	1378	3
16	29842302	0.004357298	MVP	1377	10
16	89789077	0.003628447	ZNF276	1378	8
1	204082052	0.001110289	SOX13	1351	3
19	15226687	0.001093294	ILVBL	1372	3
15	52488511	0.004350979	MYO5C	1379	12
7	150439438	0.001452433	GIMAP5	1377	3
22	18300292	0.005166052	MICAL3	1355	12
22	32162638	0.005076142	DEPDC5	1379	13
6	168281112	0.003988397	MLLT4	1379	11
2	133540368	0.005162242	NCKAP5	1356	12
17	72322493	0.003323486	KIF19	1354	7
19	41809975	0.000739098	HNRNPUL1	1353	2
10	121658001	0.002900653	SEC23IP	1379	7
9	139390982	0.002902758	NOTCH1	1378	8
19	57985593	0.001812908	ZNF772	1379	4
2	71360234	0.001091703	MPHOSPH10	1374	3
9	138836921	0.001451379	UBAC1	1378	3
1	40544311	0.001089325	PPT1	1377	3
8	11157647	0.003628447	MTMR9	1378	8
10	6255678	0.000729395	PFKFB3	1371	2
2	175666502	0.001845018	CHN1	1355	5
11	9047248	0.00399419	SCUBE2	1377	10
2	25965733	0.00479351	ASXL2	1356	12

6	49928079	0.000728332	DEFB114	1373	2
16	23614833	0.002900653	PALB2	1379	8
5	149386139	0.00479351	HMGXB3	1356	13
4	6292992	0.002900653	WFS1	1379	8
15	62939566	0.008701958	TLN2	1379	22
7	25266507	0.000725163	NPVF	1379	2
3	19295326	0.004350979	KCNH8	1379	12
8	139606414	0.005438724	COL22A1	1379	14
11	35454223	0.002178649	PAMR1	1377	6
16	58559143	0.003988397	CNOT1	1379	9
16	57238760	0.001089325	RSPRY1	1377	3
7	73452052	0.003628447	ELN	1378	9
11	33307986	0.003988397	HIPK3	1379	11
1	26517907	0.000725163	CATSPER4	1379	2
2	166605373	0.002900653	GALNT3	1379	7
2	203914626	0.005438724	NBEAL1	1379	15
7	92837940	0.001451379	HEPACAM2	1378	4
7	138921775	0.003625816	UBN2	1379	10
8	74464380	0.001452433	STAU2	1377	4
11	8715677	0.003625816	ST5	1379	10
6	41304025	0.001089325	NCR2	1377	3
10	98708825	0.002177068	LCOR	1378	5
4	65165724	0.001451379	TECRL	1378	3
8	68112576	0.003988397	ARFGEF1	1379	11
15	52192392	0.001090116	TMOD3	1376	3
19	52519398	0.003625816	ZNF614	1379	9
15	43621957	0.001129518	LCMT2	1328	3
12	29659790	0.004357298	TMTC1	1377	12
8	6377507	0.000726216	ANGPT2	1377	2
11	117089862	0.001452433	PCSK7	1377	4
4	2822378	0.001100514	SH3BP2	1363	3
5	115173421	0.001091703	ATG12	1374	3
19	50862281	0.001454545	NAPSA	1375	4
14	73412708	0.001088534	DCAF4	1378	3
1	13910397	0.00074239	PDPN	1347	2
5	94803618	0.004350979	TTC37	1379	12
12	301738	0.000726216	SLC6A12	1377	2
6	27834740	0.001089325	HIST1H1B	1377	3
12	53233582	0.001089325	KRT78	1377	3
4	160243519	0.003625816	RAPGEF2	1379	8
16	81941362	0.003988397	PLCG2	1379	8
1	74507425	0.004354136	LRRIQ3	1378	11
3	370031	0.00688905	CHL1	1379	16
6	157488241	0.002900653	ARID1B	1379	8
13	21729265	0.001453488	SKA3	1376	4
19	48953980	0.001102941	GRWD1	1360	3
3	186937968	0.000726744	MASP1	1376	2
19	39410475	0.000732064	SARS2	1366	2

2	24929639	0.004713561	NCOA1	1379	13
1	43647303	0.002538071	WDR65	1379	7
15	29996437	0.003988397	TJP1	1379	11
20	3672136	0.003267974	SIGLEC1	1377	9
11	77336056	0.001452433	CLNS1A	1377	4
15	91293193	0.003263234	BLM	1379	9
19	17873544	0.005813953	FCHO1	1376	6
1	19166484	0.001452433	TAS1R2	1377	3
1	152382473	0.001143293	CRNN	1312	3
2	61118845	0.001451379	REL	1378	4
12	72004500	0.003625816	ZFC3H1	1379	9
11	94308183	0.00181686	PIWIL4	1376	5
12	7354415	0.001089325	PEX5	1377	3
1	180155274	0.001090909	QSOX1	1375	3
15	60792111	0.000725163	RORA	1379	2
14	36768391	0.000726216	MBIP	1377	2
3	169991089	0.001090116	PRKCI	1376	3
16	89579377	0.003265602	SPG7	1378	8
2	170396678	0.001451379	FASTKD1	1378	4
14	56079132	0.00688905	KTN1	1379	19
22	40757545	0.001087745	ADSL	1379	3
2	11337446	0.003625816	ROCK2	1379	9
1	6680063	0.000733676	PHF13	1363	2
16	67910004	0.004354136	EDC4	1378	12
17	1650773	0.000727802	SERPINF2	1374	2
11	60687333	0.000728332	TMEM109	1373	2
2	172409908	0.000726744	CYBRD1	1376	2
15	32935947	0.000738552	SCG5	1354	2
6	158532448	0.003988397	SERAC1	1379	10
17	4711173	0.004713561	PLD2	1379	12
14	75551312	0.001087745	NEK9	1379	3
22	40521852	0.003318584	TNRC6B	1356	9
6	69646498	0.003625816	BAI3	1379	9
4	159136347	0.000726744	TMEM144	1376	2
1	64097336	0.000727273	PGM1	1375	2
7	100452319	0.001087745	SLC12A9	1379	3
16	58437012	0.000725163	GINS3	1379	2
17	37866339	0.003633721	ERBB2	1376	9
11	6644866	0.005899705	DCHS1	1356	15
11	68125140	0.004357298	LRP5	1377	12
15	52609385	0.004354136	MYO5A	1378	12
12	542416	0.001454545	CCDC77	1375	4
1	207642527	0.004350979	CR2	1379	11
21	15524939	0.003628447	LIPI	1378	8
13	113678963	0.001093294	MCF2L	1372	3
1	153994760	0.004350979	NUP210L	1379	11
7	132070037	0.001087745	PLXNA4	1379	3
4	88986599	0.001454545	PKD2	1375	4

5	96011283	0.003263234	CAST	1379	7
19	43858418	0.001476015	CD177	1355	3
19	58213068	0.000725163	ZNF154	1379	2
1	230895332	0.001812908	CAPN9	1379	4
2	26534083	0.001476015	GPR113	1355	4
15	52058737	0.00109569	TMOD2	1369	3
12	11091403	0.000725689	TAS2R14	1378	2
6	132910281	0.001453488	TAAR5	1376	4
10	69881283	0.006526468	MYPN	1379	16
12	100444000	0.003263234	UHRF1BP1L	1379	8
15	40913165	0.005801305	CASC5	1379	16
19	45377236	0.001087745	PVRL2	1379	3
13	45578499	0.001093294	GPALPP1	1372	3
5	150657198	0.001451379	SLC36A3	1378	4
12	53693596	0.001088534	C12orf10	1378	3
10	18787344	0.003263234	CACNB2	1379	9
5	140186787	0.002902758	PCDHA4	1378	8
12	54765307	0.001090116	ZNF385A	1376	3
3	168830603	0.003625816	MECOM	1379	9
14	104120935	0.001089325	KLC1	1377	3
7	94228187	0.001088534	SGCE	1378	3
2	232393359	0.000729927	NMUR1	1370	2
2	186607891	0.018854242	FSIP2	1379	48
20	49212776	0.000726744	FAM65C	1376	2
17	7495195	0.002949853	FXR2	1356	7
1	17939596	0.000728863	ARHGEF10L	1372	2
4	76781962	0.003988397	PPEF2	1379	9
12	53086397	0.001088534	KRT77	1378	3
14	105169669	0.001093294	INF2	1372	3
14	55529346	0.001473839	MAPK1IP1L	1357	4
20	31887728	0.001087745	BPIFB1	1379	3
10	119798693	0.001450326	RAB11FIP2	1379	3
3	88039912	0.001812908	HTR1F	1379	5
6	150386764	0.001452433	ULBP3	1377	3
19	46174621	0.001454545	GIPR	1375	4
16	24946841	0.001094092	ARHGAP17	1371	3
10	93699717	0.005442671	BTAF1	1378	15
9	101891228	0.001088534	TGFBR1	1378	3
11	9851020	0.005438724	SBF2	1379	14
3	44816831	0.004713561	KIF15	1379	13
14	78288795	0.003991292	ADCK1	1378	9
8	23290509	0.001451379	ENTPD4	1378	4
5	15616095	0.001478197	FBXL7	1353	4
13	52511641	0.005076142	ATP7B	1379	14
15	43705358	0.005801305	TP53BP1	1379	14
9	116226101	0.005076142	RGS3	1379	13
15	98508895	0.001088534	ARRDC4	1378	3
14	81025628	0.002900653	CEP128	1379	8

10	19493964	0.003687316	MALRD1	1356	10
7	48028423	0.001454545	SUN3	1375	3
19	10668873	0.001450326	KRI1	1379	4
10	71129094	0.003625816	HK1	1379	10
2	160006897	0.005076142	TANC1	1379	13
1	237433836	0.004424779	RYR2	1356	12
21	40571059	0.004350979	BRWD1	1379	12
6	28542546	0.002900653	SCAND3	1379	6
5	149240522	0.002900653	PDE6A	1379	8
4	25146422	0.000728332	SEPSECS	1373	2
3	87311221	0.000727273	POU1F1	1375	2
11	62601305	0.001845018	WDR74	1355	5
7	20418797	0.003263234	ITGB8	1379	9
12	133721107	0.002900653	ZNF10	1379	8
11	108345622	0.003988397	KDELC2	1379	9
2	38156703	0.004350979	RMDN2	1379	12
20	36767927	0.001454545	TGM2	1375	3
15	89442658	0.001457726	MFGE8	1372	4
17	1684636	0.004713561	SMYD4	1379	11
5	149740757	0.003263234	TCOF1	1379	8
16	75512862	0.00073692	CHST6	1357	2
19	38103353	0.001450326	ZNF540	1379	4
15	99669964	0.005908419	SYNM	1354	13
14	51448679	0.001088534	TRIM9	1378	3
17	66425032	0.000727273	WIPI1	1375	2
1	112031347	0.002538071	ADORA3	1379	7
2	42931405	0.000737463	MTA3	1356	2
12	49420127	0.01880531	KMT2D	1356	45
16	71894405	0.001088534	ZNF821	1378	2
4	120169930	0.004713561	USP53	1379	11
16	3778380	0.004716981	CREBBP	1378	13
5	140011920	0.001099707	CD14	1364	3
2	112922609	0.001087745	FBLN7	1379	3
2	220412234	0.001091703	TMEM198	1374	3
1	183087174	0.004350979	LAMC1	1379	12
1	28858344	0.001090116	RCC1	1376	3
1	169435207	0.003263234	SLC19A2	1379	9
20	47864435	0.004713561	ZNFX1	1379	11
5	176024920	0.003625816	GPRIN1	1379	10
3	37514892	0.004354136	ITGA9	1378	12
17	27064510	0.002541757	NEK8	1377	6
7	142570211	0.001452433	TRPV6	1377	4
16	78056539	0.001450326	CLEC3A	1379	4
6	116441874	0.00182083	COL10A1	1373	5
1	203799317	0.001090909	ZC3H11A	1375	3
3	197402060	0.002538071	KIAA0226	1379	6
3	171323177	0.003265602	PLD1	1378	9
16	29912608	0.000733138	ASPHD1	1364	2

7	100028368	0.001461988	MEPCE	1368	4
19	50826883	0.001090116	KCNC3	1376	3
11	58274866	0.001467351	OR5B21	1363	4
1	10292487	0.006531205	KIF1B	1378	16
5	176859007	0.001467351	GRK6	1363	4
22	38119329	0.001457726	TRIOBP	1372	4
14	75376434	0.001468429	RPS6KL1	1362	3
16	3486558	0.001450326	ZNF597	1379	4
1	147086229	0.005076142	BCL9	1379	14
1	32118388	0.003625816	COL16A1	1379	10
2	224824717	0.001090116	MRPL44	1376	3
10	121510590	0.003263234	INPP5F	1379	9
2	135965125	0.005162242	ZRANB3	1356	14
13	26043183	0.005076142	ATP8A2	1379	10
3	172224693	0.000727802	TNFSF10	1374	2
2	128861555	0.006894049	UGGT1	1378	17
2	216908685	0.001090116	PECR	1376	3
4	154502013	0.003263234	KIAA0922	1379	9
1	231044467	0.002175489	TTC13	1379	5
11	124949100	0.001089325	SLC37A2	1377	3
13	99498181	0.00479351	DOCK9	1356	13
11	5153475	0.001089325	OR52A5	1377	2
12	70704725	0.001093294	CNOT2	1372	3
7	24681484	0.002538071	MPP6	1379	7
2	170338808	0.001814224	BBS5	1378	3
6	131191509	0.002900653	EPB41L2	1379	7
1	201182003	0.002909091	IGFN1	1375	8
1	46290120	0.005438724	MAST2	1379	14
6	106967134	0.005076142	AIM1	1379	14
3	128181455	0.001815541	DNAJB8	1377	5
7	158447833	0.004350979	NCAPG2	1379	10
16	11076768	0.004056047	CLEC16A	1356	11
17	48646326	0.003690037	CACNA1G	1355	9
22	50312926	0.000728332	CRELD2	1373	2
11	640443	0.001464129	DRD4	1366	4
2	220097003	0.003988397	ANKZF1	1379	10
19	14991441	0.002196193	OR7A17	1366	5
17	31348270	0.001090116	ASIC2	1376	3
19	38375631	0.006268437	WDR87	1356	15
15	29428696	0.001114413	FAM189A1	1346	3
16	30774749	0.002177068	RNF40	1378	6
9	91993666	0.003625816	SEMA4D	1379	8
10	114194123	0.001451379	ZDHHC6	1378	4
12	20868204	0.004350979	SLCO1C1	1379	10
6	41613867	0.001101322	MDFI	1362	3
7	12617746	0.004428044	SCIN	1355	12
20	47849886	0.000728332	DDX27	1373	2
17	15215773	0.001451379	TEKT3	1378	4

4	57209101	0.002900653	AASDH	1379	7
3	69077056	0.006526468	TMF1	1379	12
20	44578679	0.003991292	ZNF335	1378	11
5	122135400	0.001091703	SNX2	1374	3
13	74269804	0.001450326	KLF12	1379	4
1	179292631	0.003625816	SOAT1	1379	9
20	13830856	0.002904866	SEL1L2	1377	7
17	80006928	0.000735294	RFNG	1360	2
9	75263582	0.002902758	TMC1	1378	8
9	140355145	0.004720407	PNPLA7	1377	10
10	90332716	0.001090909	RNLS	1375	2
19	37440461	0.004350979	ZNF568	1379	11
4	98762008	0.001092498	STPG2	1373	2
20	61981827	0.001090116	CHRNA4	1376	3
2	165765251	0.000726744	SLC38A11	1376	2
3	160155976	0.000729395	TRIM59	1371	2
3	179306676	0.001450326	MRPL47	1379	4
11	82877009	0.004424779	PCF11	1356	12
6	43400027	0.002900653	ABCC10	1379	8
4	184585022	0.003267974	TRAPPC11	1377	9
18	28966736	0.005083515	DSG4	1377	13
15	40583011	0.005076142	PLCB2	1379	12
12	57423229	0.001812908	MYO1A	1379	5
12	52448312	0.001103753	NR4A1	1359	3
11	48266725	0.002900653	OR4X2	1379	7
1	174188318	0.005079826	RABGAP1L	1378	13
1	207237118	0.002900653	PFKFB2	1379	8
1	78425929	0.001451379	FUBP1	1378	4
19	19153578	0.001458789	ARMC6	1371	4
11	45203340	0.001098097	PRDM11	1366	3
7	73513430	0.001455604	LIMK1	1374	4
6	138531063	0.005166052	KIAA1244	1355	14
19	4817081	0.001464129	TICAM1	1366	4
1	176563744	0.003625816	PAPPA2	1379	10
2	109086374	0.003625816	GCC2	1379	7
1	108681815	0.001450326	SLC25A24	1379	3
11	65293709	0.003625816	SCYL1	1379	9
7	77229985	0.003625816	PTPN12	1379	10
18	44030270	0.001089325	RNF165	1377	2
1	11562929	0.004360465	PTCHD2	1376	12
5	31424569	0.001476015	DROSHA	1355	4
17	56382421	0.005076142	BZRAP1	1379	13
9	139090588	0.000742942	LHX3	1346	2
16	334876	0.001455604	PDIA2	1374	4
12	12974277	0.002538071	DDX47	1379	7
3	180334625	0.00479351	CCDC39	1356	13
11	12315661	0.002900653	MICALCL	1379	8
15	42126945	0.004713561	JMJD7-PLA2G4B	1379	13

9	90252895	0.004350979	DAPK1		1379	12
11	73715549	0.000725163	UCP3		1379	2
9	140611110	0.003631082	EHMT1		1377	9
2	242681983	0.001090909	D2HGDH		1375	3
1	160849118	0.001451379	ITLN1		1378	3
4	147560579	0.002175489	POU4F2		1379	5
3	49759411	0.001092498	GMPPB		1373	3
16	88782168	0.003692762	PIEZO1		1354	10
12	94702621	0.003263234	CCDC41		1379	7
10	104352457	0.001098901	SUFU		1365	2
10	52569773	0.003263234	A1CF		1379	9
6	12120192	0.00688905	HIVEP1		1379	18
9	19316789	0.004713561	DENND4C		1379	10
2	86847469	0.001453488	RNF103		1376	2
2	136567212	0.001088534	LCT		1378	3
8	106646530	0.004424779	ZFPM2		1356	12
1	155262985	0.001451379	PKLR		1378	4
2	204801577	0.001087745	ICOS		1379	3
2	219875619	0.002913328	CCDC108		1373	7
12	6670110	0.001474926	NOP2		1356	4
14	21990287	0.003625816	SALL2		1379	9
8	131092215	0.003625816	ASAP1		1379	10
19	56459488	0.003988397	NLRP8		1379	9
11	16811389	0.005442671	PLEKHA7		1378	12
16	84883004	0.001088534	CRISPLD2		1378	3
14	24901435	0.001096491	KHNYN		1368	3
1	151491035	0.001087745	CGN		1379	3
3	195475834	0.004354136	MUC4		1378	11
3	121980507	0.002902758	CASR		1378	7
5	110428033	0.003988397	WDR36		1379	10
22	30000055	0.001452433	NF2		1377	4
3	98002298	0.001089325	OR5H2		1377	3
7	150645995	0.001090116	KCNH2		1376	3
2	110301826	0.001815541		Sep-10	1377	5
6	130466555	0.001088534	SAMD3		1378	3
15	76641039	0.005899705	SCAPER		1356	12
7	129664286	0.001815541	ZC3HC1		1377	5
7	148767693	0.003681885	ZNF786		1358	10
7	134871724	0.003265602	WDR91		1378	9
14	50704390	0.002175489	L2HGDH		1379	5
3	49158673	0.005076142	LAMB2		1379	14
9	134136555	0.00146092	FAM78A		1369	4
3	15643068	0.003625816	BTD		1379	10
11	113196357	0.001814224	TTC12		1378	5
2	55056490	0.004424779	EML6		1356	11
16	18826521	0.005899705	SMG1		1356	15
19	686938	0.00147167	PRSS57		1359	3
17	10398329	0.003988397	MYH1		1379	11

10	119042952	0.003263234	PDZD8	1379	9
3	154855891	0.003263234	MME	1379	8
11	18633085	0.001087745	SPTY2D1	1379	3
15	65960342	0.004056047	DENND4A	1356	9
3	122287670	0.001814224	DTX3L	1378	5
16	16103703	0.003263234	ABCC1	1379	9
4	17847445	0.002900653	LCORL	1379	8
8	26441425	0.001818182	DPYSL2	1375	5
7	135263499	0.005438724	NUP205	1379	13
11	1248016	0.003692762	MUC5B	1354	10
10	98760875	0.004720407	SLIT1	1377	13
17	57287792	0.002175489	SMG8	1379	6
16	4606531	0.001110289	C16orf96	1351	3
21	38461161	0.003625816	TTC3	1379	9
8	71619234	0.001088534	XKR9	1378	3
5	140558454	0.001467351	PCDHB8	1363	3
8	143958616	0.001087745	CYP11B1	1379	3
18	20735915	0.00182083	CABLES1	1373	4
9	27562393	0.001089325	C9orf72	1377	3
5	173316812	0.001087745	CPEB4	1379	3
3	9412883	0.003988397	THUMPD3	1379	9
3	186358335	0.001451379	FETUB	1378	4
3	119150851	0.001455604	TMEM39A	1374	4
1	156617324	0.004723837	BCAN	1376	11
3	148895762	0.003263234	CP	1379	9
1	40726560	0.002539913	ZMPSTE24	1378	6
16	3452336	0.002538071	ZNF174	1379	6
5	65449349	0.001452433	SREK1	1377	3
4	57176866	0.005442671	KIAA1211	1378	14
2	128322820	0.004428044	MYO7B	1355	12
10	7608038	0.003263234	ITIH5	1379	9
10	43693555	0.001091703	RASGEF1A	1374	3
12	54791197	0.003988397	ITGA5	1379	10
12	46123866	0.003988397	ARID2	1379	11
1	147126350	0.000725689	ACP6	1378	2
7	11441494	0.004424779	THSD7A	1356	11
1	179339186	0.004713561	AXDND1	1379	11
13	28880888	0.003988397	FLT1	1379	11
1	19200963	0.001099707	ALDH4A1	1364	3
19	1398854	0.001461988	GAMT	1368	4
4	71114775	0.001090116	CSN3	1376	3
22	17444680	0.001087745	GAB4	1379	3
7	114174704	0.001451379	FOXP2	1378	4
12	125591710	0.002543605	AACS	1376	7
1	146672757	0.001087745	FMO5	1379	3
10	115947916	0.003991292	TDRD1	1378	10
2	201718652	0.001088534	CLK1	1378	3
11	82921385	0.001450326	ANKRD42	1379	3

20	34502051	0.001451379	PHF20	1378	4
2	192160872	0.004350979	MYO1B	1379	11
9	33463911	0.003991292	NOL6	1378	10
17	4442720	0.004354136	MYBBP1A	1378	12
1	203743151	0.001087745	LAX1	1379	3
10	21903792	0.002906977	MLLT10	1376	8
9	112144673	0.003988397	PTPN3	1379	10
19	2852437	0.003625816	ZNF555	1379	9
1	1322783	0.002539913	CCNL2	1378	7
4	42424842	0.003988397	ATP8A1	1379	10
10	60273022	0.002900653	BICC1	1379	8
2	152346955	0.023230088	NEB	1356	60
19	57326030	0.004002911	PEG3	1374	10
1	17548925	0.003628447	PADI1	1378	9
7	938889	0.001455604	ADAP1	1374	4
19	58695352	0.001473839	ZNF274	1357	4
4	36085045	0.004713561	ARAP2	1379	13
15	43122240	0.001088534	TTBK2	1378	3
19	6741231	0.002538071	TRIP10	1379	4
1	9322133	0.002184996	H6PD	1373	5
5	140431134	0.003263234	PCDHB1	1379	9
3	39104676	0.001090116	WDR48	1376	3
12	101336188	0.003263234	ANO4	1379	8
10	21104588	0.004354136	NEBL	1378	10
7	92731116	0.00296077	SAMD9	1351	7
9	87325569	0.001088534	NTRK2	1378	3
15	72122503	0.005438724	MYO9A	1379	15
17	77707317	0.001470588	ENPP7	1360	2
5	139820674	0.004350979	ANKHD1	1379	12
19	58145160	0.003988397	ZNF211	1379	9
19	49950595	0.001815541	PIH1D1	1377	4
4	38798452	0.005079826	TLR1	1378	9
6	132171178	0.001090909	ENPP1	1375	3
11	13380072	0.002538071	ARNTL	1379	7
11	119986108	0.004350979	TRIM29	1379	11
9	136508703	0.001091703	DBH	1374	2
12	65078624	0.001090909	RASSF3	1375	3
4	68484731	0.002175489	UBA6	1379	6
4	185310123	0.000731529	IRF2	1367	2
4	66213920	0.002900653	EPHA5	1379	7
9	104170490	0.001452433	ZNF189	1377	4
19	53611941	0.003625816	ZNF415	1379	10
4	77274350	0.006163887	CCDC158	1379	13
14	59930722	0.001456664	GPR135	1373	3
8	25319696	0.003988397	CDCA2	1379	11
10	70958132	0.001450326	SUPV3L1	1379	4
8	1719259	0.001450326	CLN8	1379	4
14	89307538	0.002900653	TTC8	1379	8

5	77311267	0.004713561	AP3B1	1379	10
3	142178165	0.004350979	ATR	1379	12
14	57740964	0.001450326	AP5M1	1379	4
7	39125607	0.003318584	POU6F2	1356	8
15	66806344	0.005076142	ZWILCH	1379	13
1	114940365	0.002538071	TRIM33	1379	4
15	50853994	0.003988397	TRPM7	1379	9
11	62457852	0.002543605	BSCL2	1376	7
4	151408923	0.001812908	LRBA	1379	4
21	43505472	0.005076142	UMODL1	1379	13
19	1785581	0.003690037	ATP8B3	1355	9
12	51442891	0.002900653	LETMD1	1379	6
8	86356325	0.001088534	CA3	1378	3
19	16279038	0.00073046	CIB3	1369	2
16	70289656	0.001088534	AARS	1378	3
17	11145244	0.003318584	SHISA6	1356	8
16	57931429	0.00399419	CNGB1	1377	10
19	18322058	0.00181686	PDE4C	1376	5
22	50987650	0.001094092	KLHDC7B	1371	3
19	58384245	0.004350979	ZNF814	1379	11
14	24649689	0.003265602	IPO4	1378	7
19	58944734	0.003625816	ZNF132	1379	9
16	53653023	0.003988397	RPGRIP1L	1379	9
2	228109700	0.003991292	COL4A3	1378	11
9	35042945	0.003625816	C9orf131	1379	9
7	15405832	0.003628447	AGMO	1378	9
22	50656224	0.003988397	TUBGCP6	1379	10
5	166711866	0.006637168	TENM2	1356	14
2	64779141	0.003263234	AFTPH	1379	9
17	8157390	0.005076142	PFAS	1379	13
11	43411325	0.004716981	TTC17	1378	13
2	234357924	0.002904866	DGKD	1377	7
2	167760199	0.015228426	XIRP2	1379	37
16	4707279	0.001822157	MGRN1	1372	4
17	27591600	0.003263234	NUFIP2	1379	8
3	123634215	0.002949853	CCDC14	1356	8
6	31710731	0.004354136	MSH5	1378	7
16	77389932	0.001097293	ADAMTS18	1367	2
19	52618259	0.002538071	ZNF616	1379	7
12	77417916	0.002175489	E2F7	1379	5
11	280750	0.001459854	NLRP6	1370	4
16	14749006	0.001814224	BFAR	1378	4
17	76967848	0.002549162	LGALS3BP	1373	6
11	33564079	0.004424779	KIAA1549L	1356	12
1	64608302	0.003988397	ROR1	1379	10
1	222889053	0.001451379	BROX	1378	4
11	100998728	0.000734754	PGR	1361	2
17	33288587	0.002538071	ZNF830	1379	6

16	11785629	0.002178649	TXNDC11	1377	6
7	144096956	0.001476015	NOBOX	1355	4
6	36973600	0.004727273	FGD2	1375	11
1	111215748	0.001101322	KCNA3	1362	3
7	45120494	0.001474926	NACAD	1356	4
7	13949322	0.002583026	ETV1	1355	6
5	149374995	0.003263234	TIGD6	1379	7
19	2933836	0.003267974	ZNF77	1377	8
1	118426116	0.001088534	GDAP2	1378	3
19	44635022	0.006526468	ZNF225	1379	14
11	103797765	0.002180233	PDGFD	1376	6
6	4032061	0.001815541	PRPF4B	1377	4
3	49680157	0.009427121	BSN	1379	25
22	41652041	0.002177068	RANGAP1	1378	6
10	50723854	0.004713561	PGBD3	1379	11
4	95376450	0.002900653	PDLIM5	1379	8
14	23939266	0.002177068	NGDN	1378	6
19	53740256	0.001091703	ZNF677	1374	3
5	112363018	0.003988397	MCC	1379	11
6	28116342	0.001812908	ZKSCAN8	1379	4
11	10552252	0.000725689	RNF141	1378	2
8	48874166	0.003991292	MCM4	1378	9
14	70171362	0.001097293	KIAA0247	1367	1
22	50277343	0.005438724	ZBED4	1379	11
11	72945428	0.002177068	P2RY2	1378	5
20	57268812	0.004059041	NPEPL1	1355	7
16	1569966	0.004713561	IFT140	1379	13
1	46724400	0.001087745	RAD54L	1379	3
17	48917345	0.001097293	WFIKKN2	1367	3
7	1513227	0.005166052	INTS1	1355	13
19	47280484	0.001092498	SLC1A5	1373	3
1	109716170	0.002177068	KIAA1324	1378	5
10	71662524	0.001474926	COL13A1	1356	4
3	195780347	0.001451379	TFRC	1378	4
11	65373267	0.002547307	MAP3K11	1374	7
10	105361815	0.004354136	SH3PXD2A	1378	9
9	78547310	0.004350979	PCSK5	1379	12
1	220146583	0.002178649	EPRS	1377	5
4	96761304	0.002175489	PDHA2	1379	5
13	75869118	0.002902758	TBC1D4	1378	7
6	42559899	0.003631082	UBR2	1377	10
17	3623621	0.003263234	ITGAE	1379	9
1	115130346	0.004713561	DENND2C	1379	11
3	58368260	0.003263234	PXK	1379	8
8	23049281	0.001812908	TNFRSF10A	1379	4
1	179054873	0.001090116	TOR3A	1376	3
14	24567828	0.001089325	PCK2	1377	3
12	86199210	0.001474926	RASSF9	1356	3

6	34791062	0.003625816	UHRF1BP1	1379	10
20	33591269	0.003267974	TRPC4AP	1377	8
6	146755315	0.001094891	GRM1	1370	3
2	122122841	0.002949853	CLASP1	1356	8
4	153875422	0.002177068	FHDC1	1378	6
11	76867813	0.003687316	MYO7A	1356	9
6	76538316	0.005438724	MYO6	1379	14
11	89868804	0.004354136	NAALAD2	1378	11
16	72153841	0.002538071	PMFBP1	1379	6
4	144456032	0.00073046	SMARCA5	1369	2
3	138219349	0.003988397	CEP70	1379	9
19	17534385	0.001822157	MVB12A	1372	4
17	66865912	0.00688905	ABCA8	1379	18
16	8889870	0.001087745	TMEM186	1379	2
13	67800709	0.003340757	PCDH9	1347	7
5	140792784	0.002949853	PCDHGA10	1356	5
5	131893071	0.004350979	RAD50	1379	10
9	140772526	0.004428044	CACNA1B	1355	11
7	122341999	0.001474926	RNF148	1356	4
12	32729257	0.003628447	FGD4	1378	8
6	82904253	0.003625816	IBTK	1379	10
3	66430811	0.005442671	LRIG1	1378	15
12	85255573	0.001088534	SLC6A15	1378	3
17	1840019	0.001491424	RTN4RL1	1341	3
7	102097930	0.001114413	ALKBH4	1346	3
7	137761266	0.001088534	AKR1D1	1378	3
16	5046948	0.00295858	SEC14L5	1352	8
6	119324089	0.003265602	FAM184A	1378	8
10	72061145	0.000739098	LRRC20	1353	2
2	242814972	0.000739098	CXXC11	1353	2
5	141035803	0.003988397	ARAP3	1379	11
4	123094262	0.013052937	KIAA1109	1379	35
5	180625750	0.001450326	TRIM7	1379	4
7	81334743	0.002538071	HGF	1379	7
10	103912286	0.003625816	NOLC1	1379	10
13	109365015	0.003625816	MYO16	1379	10
8	144642036	0.001481481	GSDMD	1350	4
5	157158510	0.001451379	THG1L	1378	4
19	36386992	0.000739098	NFKBID	1353	2
6	17624963	0.003628447	NUP153	1378	9
2	182322949	0.002900653	ITGA4	1379	7
20	56078520	0.001087745	CTCFL	1379	3
22	31328945	0.001088534	MORC2	1378	3
16	67679524	0.003318584	RLTPR	1356	8
18	76870386	0.003625816	ATP9B	1379	10
6	160430072	0.005076142	IGF2R	1379	13
17	41886325	0.001089325	MPP3	1377	3
10	50530736	0.003687316	C10orf71	1356	10

17	30932141	0.002539913	MYO1D	1378	5
13	115089628	0.001090909	CHAMP1	1375	3
2	220364717	0.001097293	GMPPA	1367	3
18	29784291	0.001846381	MEP1B	1354	5
14	102792851	0.001477105	ZNF839	1354	4
9	134319706	0.00479351	PRRC2B	1356	13
11	58391634	0.001812908	CNTF	1379	4
14	94004501	0.004713561	UNC79	1379	12
7	99695524	0.000725689	MCM7	1378	2
15	77406706	0.004713561	PEAK1	1379	12
13	78138013	0.002175489	SCEL	1379	6
20	62837106	0.003991292	MYT1	1378	8
17	74272011	0.003263234	QRICH2	1379	8
10	35894508	0.002175489	GJD4	1379	5
2	25045387	0.002541757	ADCY3	1377	7
3	93733470	0.002191381	STX19	1369	6
1	20992815	0.002906977	KIF17	1376	7
11	76169266	0.003625816	C11orf30	1379	10
12	21427437	0.001814224	SLCO1A2	1378	5
14	77746395	0.002177068	POMT2	1378	5
6	33137266	0.002177068	COL11A2	1378	6
10	26305806	0.005801305	MYO3A	1379	16
8	442650	0.000738007	TDRP	1355	2
17	48625746	0.003628447	SPATA20	1378	10
16	31926216	0.001812908	ZNF267	1379	5
8	28218521	0.001088534	FBXO16	1378	3
19	50098382	0.002581121	PRR12	1356	7
11	55135398	0.001450326	OR4A15	1379	4
11	18305365	0.003625816	HPS5	1379	9
1	158986413	0.002541757	IFI16	1377	7
16	56969323	0.002900653	HERPUD1	1379	8
14	69676209	0.002902758	EXD2	1378	6
2	220111332	0.001456664	STK16	1373	4
9	130941123	0.001090116	CIZ1	1376	2
8	22418870	0.003625816	SORBS3	1379	8
10	105727523	0.003267974	SLK	1377	9
8	124693550	0.001451379	ANXA13	1378	4
3	122545715	0.001088534	DIRC2	1378	3
12	48132489	0.001451379	RAPGEF3	1378	3
1	65047903	0.004354136	CACHD1	1378	11
12	49494395	0.002175489	LMBR1L	1379	6
19	38189998	0.001450326	ZNF607	1379	4
3	47894731	0.005801305	MAP4	1379	15
1	36772857	0.002178649	SH3D21	1377	6
1	20224100	0.000729395	OTUD3	1371	2
4	124322881	0.001814224	SPRY1	1378	5
3	112059768	0.001088534	CD200	1378	2
17	76388581	0.005076142	PGS1	1379	8

4	119652631	0.002538071	SEC24D	1379	6
3	183211976	0.002175489	KLHL6	1379	6
4	106604073	0.001812908	INTS12	1379	4
17	18137237	0.002554745	LLGL1	1370	7
17	38547835	0.003687316	TOP2A	1356	9
3	52745842	0.003267974	NEK4	1377	9
19	54849676	0.001093294	LILRA4	1372	3
19	40354293	0.003263234	FCGBP	1379	9
17	73234390	0.003625816	GGA3	1379	9
7	117351634	0.006163887	CTTNBP2	1379	14
20	2293605	0.003625816	TGM3	1379	9
9	36058845	0.002900653	RECK	1379	8
3	186507765	0.003263234	RFC4	1379	7
2	17692186	0.003988397	RAD51AP2	1379	9
12	66696480	0.003991292	HELB	1378	11
6	89808535	0.001464129	SRSF12	1366	4
11	8641007	0.003318584	TRIM66	1356	9
14	50092535	0.001474926	DNAAF2	1356	4
12	50386373	0.003263234	RACGAP1	1379	8
7	99779769	0.003988397	STAG3	1379	10
11	74528735	0.001812908	RNF169	1379	5
22	21340145	0.002902758	LZTR1	1378	8
1	234528165	0.004713561	TARBP1	1379	13
10	105162940	0.003263234	PDCD11	1379	8
12	110370868	0.001451379	GIT2	1378	4
12	8196659	0.001450326	FOXJ2	1379	4
5	159462163	0.000726744	TTC1	1376	2
4	106474099	0.004713561	ARHGEF38	1379	10
10	58118656	0.001450326	ZWINT	1379	4
4	172735801	0.001088534	GALNTL6	1378	3
8	33246705	0.001457726	FUT10	1372	2
16	28898558	0.002902758	ATP2A1	1378	8
3	197541847	0.002539913	LRCH3	1378	6
2	178481648	0.001450326	TTC30A	1379	4
8	56686213	0.003988397	TGS1	1379	10
18	7888156	0.002538071	PTPRM	1379	7
16	449073	0.001465201	NME4	1365	4
1	76269433	0.004350979	MSH4	1379	11
11	1972182	0.001819505	MRPL23	1374	4
19	58773113	0.003991292	ZNF544	1378	10
8	95751889	0.002538071	DPY19L4	1379	7
1	16577464	0.001088534	FBXO42	1378	3
3	101447737	0.001450326	CEP97	1379	4
5	111500763	0.002900653	EPB41L4A	1379	8
4	189012729	0.002900653	TRIML2	1379	7
4	499597	0.002175489	PIGG	1379	5
6	135611638	0.004056047	AHI1	1356	11
2	234386066	0.003687316	USP40	1356	10

16	69875980	0.003265602	WWP2	1378	9
4	39187433	0.004059041	WDR19	1355	8
15	69548371	0.001814224	GLCE	1378	5
10	117824004	0.001456664	GFRA1	1373	4
3	38347873	0.001450326	SLC22A14	1379	4
7	100635170	0.004424779	MUC12	1356	11
1	67633774	0.004713561	IL23R	1379	10
5	158747482	0.010530138	IL12B	1377	5
5	176070695	0.00148368	EIF4E1B	1348	4
22	41545888	0.002538071	EP300	1379	7
20	36846716	0.003263234	KIAA1755	1379	9
18	29429606	0.004713561	TRAPPC8	1379	11
8	141711102	0.002178649	PTK2	1377	6
1	110604158	0.000728332	ALX3	1373	2
15	42144412	0.004800591	SPTBN5	1354	13
19	33579151	0.002177068	GPATCH1	1378	6
15	79749040	0.003988397	KIAA1024	1379	10
15	45387235	0.003988397	DUOX2	1379	9
15	74290522	0.003631082	PML	1377	8
14	88938659	0.003628447	PTPN21	1378	10
7	1785155	0.00148258	ELFN1	1349	4
11	46430140	0.002541757	AMBRA1	1377	6
5	170343472	0.003625816	RANBP17	1379	10
11	55339889	0.001450326	OR4C16	1379	3
5	13700770	0.014503263	DNAH5	1379	39
14	23521750	0.001092498	CDH24	1373	3
3	25639941	0.002212389	TOP2B	1356	5
3	57542224	0.001812908	PDE12	1379	4
12	26540413	0.003988397	ITPR2	1379	11
6	26020892	0.001129518	HIST1H3A	1328	3
13	36396947	0.001452433	DCLK1	1377	3
2	48915276	0.002177068	LHCGR	1378	6
16	347063	0.001090909	AXIN1	1375	3
1	77627301	0.001814224	PIGK	1378	5
4	122831483	0.001814224	TRPC3	1378	5
7	36570044	0.002538071	AOAH	1379	7
15	49301543	0.001454545	SECISBP2L	1375	4
2	17946244	0.003263234	GEN1	1379	9
7	148851049	0.001812908	ZNF398	1379	5
19	7970713	0.001102941	MAP2K7	1360	3
22	44364633	0.001088534	SAMM50	1378	3
2	102626042	0.001452433	IL1R2	1377	4
1	27277989	0.001466276	C1orf172	1364	4
6	31515490	0.001823487	NFKBIL1	1371	5
12	14656780	0.001090909	PLBD1	1375	3
18	45566926	0.001450326	ZBTB7C	1379	3
4	15985975	0.004059041	PROM1	1355	10
13	98655138	0.001087745	IPO5	1379	3

14	60005446	0.001476015	CCDC175	1355	4
4	73956524	0.004350979	ANKRD17	1379	12
2	73315364	0.001452433	RAB11FIP5	1377	4
5	140782520	0.002209131	PCDHGA9	1358	6
12	25263061	0.002538071	CASC1	1379	6
2	196619163	0.016316171	DNAH7	1379	42
1	27682986	0.004730713	MAP3K6	1374	12
12	14982339	0.001814224	ART4	1378	5
17	34071877	0.003628447	GAS2L2	1378	9
16	2571038	0.00181686	AMDHD2	1376	5
11	66384328	0.00182083	RBM14	1373	5
2	213878641	0.001087745	IKZF2	1379	3
12	7043677	0.003625816	ATN1	1379	9
22	35796489	0.001452433	MCM5	1377	4
5	98192165	0.005076142	CHD1	1379	12
2	101437598	0.002539913	NPAS2	1378	6
20	13982962	0.001451379	MACROD2	1378	4
11	66453395	0.004716981	SPTBN2	1378	11
7	27570848	0.001450326	HIBADH	1379	4
17	7096802	0.000737463	DLG4	1356	2
11	85692237	0.002538071	PICALM	1379	6
9	93976665	0.001814224	AUH	1378	5
4	39506958	0.002175489	UGDH	1379	4
1	43826537	0.001458789	CDC20	1371	3
4	15709186	0.001089325	BST1	1377	3
17	80037129	0.004354136	FASN	1378	11
11	118461060	0.002906977	ARCN1	1376	8
20	7886820	0.001450326	HAO1	1379	4
9	131669567	0.001814224	LRRC8A	1378	4
17	39623187	0.001094891	KRT32	1370	3
17	78164588	0.002545455	CARD14	1375	5
11	123988394	0.002541757	VWA5A	1377	7
17	60024312	0.00688905	MED13	1379	18
20	57428669	0.005083515	GNAS	1377	11
12	122369671	0.004716981	WDR66	1378	12
5	43139368	0.002177068	ZNF131	1378	6
13	28592610	0.003263234	FLT3	1379	8
5	68396683	0.004716981	SLC30A5	1378	10
11	118486833	0.003631082	PHLDB1	1377	10
12	62147428	0.001456664	FAM19A2	1373	3
21	30303502	0.003628447	LTN1	1378	10
6	108215098	0.001450326	SEC63	1379	4
17	78197077	0.003628447	SLC26A11	1378	9
3	97664038	0.001450326	MINA	1379	3
19	15636260	0.001087745	CYP4F22	1379	3
7	99091180	0.002900653	ZNF394	1379	7
3	179047475	0.001450326	ZNF639	1379	4
2	196544987	0.001814224	SLC39A10	1378	4

22	43924767	0.002900653	EFCAB6	1379	8
12	112600241	0.009218289	HECTD4	1356	23
15	66607445	0.005076142	DIS3L	1379	13
12	40076772	0.004716981	C12orf40	1378	7
3	184290548	0.002538071	EPHB3	1379	7
9	37441872	0.001089325	ZBTB5	1377	3
3	47455439	0.003263234	SCAP	1379	9
16	19451689	0.003263234	TMC5	1379	6
3	180320090	0.001812908	TTC14	1379	5
1	11769400	0.001096491	DRAXIN	1368	3
5	150885559	0.011602611	FAT2	1379	31
9	139905657	0.003270349	ABCA2	1376	9
5	145895043	0.001450326	GPR151	1379	4
8	6289091	0.003263234	MCPH1	1379	8
19	36297634	0.000740741	PRODH2	1350	2
6	30621036	0.002178649	DHX16	1377	6
6	31868333	0.000729927	ZBTB12	1370	2
5	96320810	0.004350979	LNPEP	1379	9
10	45953713	0.002538071	MARCH8	1379	6
12	39688315	0.003625816	KIF21A	1379	10
4	170315671	0.003687316	NEK1	1356	9
2	63486475	0.002180233	WDPCP	1376	5
1	186839567	0.001814224	PLA2G4A	1378	5
2	28748155	0.003991292	PLB1	1378	10
11	17530914	0.001458789	USH1C	1371	4
5	50074461	0.001087745	PARP8	1379	3
2	85553821	0.001107011	TGOLN2	1355	3
1	32256641	0.002538071	SPOCD1	1379	7
11	92901217	0.001450326	SLC36A4	1379	4
15	90969418	0.003267974	IQGAP1	1377	9
4	175224887	0.001451379	CEP44	1378	4
12	108603953	0.001453488	WSCD2	1376	4
8	145736852	0.00295421	RECQL4	1354	8
16	76389401	0.004014599	CNTNAP4	1370	10
6	36259197	0.001814224	PNPLA1	1378	3
6	32407804	0.001812908	HLA-DRA	1379	5
2	103121843	0.001815541	SLC9A4	1377	4
17	39595588	0.002538071	KRT38	1379	7
7	75625879	0.002900653	STYXL1	1379	8
19	7504872	0.003270349	ARHGEF18	1376	7
9	121929590	0.001452433	BRINP1	1377	4
8	87229770	0.001450326	SLC7A13	1379	4
17	1554116	0.002900653	PRPF8	1379	8
21	37442642	0.001451379	CBR1	1378	4
19	38901575	0.001477105	RASGRP4	1354	4
20	45865191	0.001818182	ZMYND8	1375	5
1	70291459	0.002538071	LRRC7	1379	7
1	182025470	0.004357298	ZNF648	1377	12

22	42264762	0.004357298	SREBF2	1377	11
3	46713034	0.002177068	ALS2CL	1378	6
18	23861944	0.002175489	TAF4B	1379	6
4	166946498	0.001088534	TLL1	1378	3
11	6129009	0.003263234	OR56B4	1379	9
19	58264679	0.002539913	ZNF776	1378	7
15	39910002	0.001451379	FSIP1	1378	4
5	106717071	0.001087745	EFNA5	1379	3
9	112642903	0.004713561	PALM2-AKAP2	1379	13
17	77076396	0.003625816	ENGASE	1379	10
19	49100088	0.001130369	SULT2B1	1327	1
17	7240677	0.004360465	ACAP1	1376	8
6	135239853	0.002538071	ALDH8A1	1379	7
19	52130713	0.001091703	SIGLEC5	1374	3
2	152128155	0.001814224	NMI	1378	4
3	113374102	0.003988397	KIAA2018	1379	10
14	58915103	0.004056047	KIAA0586	1356	10
3	139237323	0.000725163	RBP1	1379	2
16	67314404	0.005076142	PLEKHG4	1379	14
2	1652388	0.000738552	PXDN	1354	2
17	42335037	0.002904866	SLC4A1	1377	8
5	38406929	0.003265602	EGFLAM	1378	7
1	222802837	0.003263234	MIA3	1379	9
9	91934611	0.003988397	SECISBP2	1379	10
1	46184944	0.003272727	IPP	1375	5
2	136360151	0.003625816	R3HDM1	1379	10
15	31197016	0.003991292	FAN1	1378	11
2	42492088	0.003263234	EML4	1379	9
17	8131925	0.004350979	CTC1	1379	12
4	40427923	0.003628447	RBM47	1378	10
2	190554469	0.004350979	ANKAR	1379	11
14	24877330	0.006268437	NYNRIN	1356	15
1	155148436	0.00109569	TRIM46	1369	3
8	124338131	0.003988397	ATAD2	1379	10
15	81625179	0.003687316	TMC3	1356	10
6	33995915	0.004373178	GRM4	1372	9
11	70331531	0.003628447	SHANK2	1378	10
15	35149018	0.002539913	AQR	1378	7
11	111657183	0.003625816	ALG9	1379	10
22	31835994	0.005438724	EIF4ENIF1	1379	13
11	77820550	0.001452433	ALG8	1377	4
3	100148616	0.001090909	LNP1	1375	3
7	47840260	0.003991292	PKD1L1	1378	10
7	100478968	0.003625816	SRRT	1379	10
16	5105262	0.002539913	C16orf89	1378	7
3	128973585	0.002539913	COPG1	1378	7
8	25149562	0.002581121	DOCK5	1356	6
1	231471352	0.001461988	EXOC8	1368	4

19	47861322	0.001454545	DHX34	1375	4
21	32496909	0.003628447	TIAM1	1378	10
12	120941658	0.001087745	COQ5	1379	3
5	145834635	0.003263234	TCERG1	1379	9
3	36759558	0.003263234	DCLK3	1379	8
15	99250823	0.003263234	IGF1R	1379	9
22	50845191	0.003272727	PPP6R2	1375	6
20	43850424	0.001451379	SEMG2	1378	3
3	132948108	0.002175489	TMEM108	1379	6
3	140397121	0.003625816	TRIM42	1379	10
1	74663994	0.002175489	FPGT	1379	6
9	137593066	0.003988397	COL5A1	1379	10
5	80369109	0.003263234	RASGRF2	1379	9
10	55582423	0.004713561	PCDH15	1379	13
1	150525441	0.002904866	ADAMTSL4	1377	6
19	2194529	0.001815541	DOT1L	1377	5
2	202057764	0.003263234	CASP10	1379	9
11	55579157	0.001087745	OR5L1	1379	3
22	37769128	0.001830161	ELFN2	1366	5
10	70332158	0.003988397	TET1	1379	11
3	74315654	0.002900653	CNTN3	1379	8
9	132658113	0.002949853	FNBP1	1356	7
3	11300767	0.002175489	HRH1	1379	6
3	54537664	0.00295203	CACNA2D3	1355	8
19	40513235	0.002175489	ZNF546	1379	6
9	115652078	0.001453488	SLC46A2	1376	4
16	25139807	0.003687316	LCMT1	1356	7
1	92634450	0.001843658	KIAA1107	1356	5
1	53715201	0.002178649	LRP8	1377	6
4	94006200	0.002538071	GRID2	1379	7
20	24523791	0.001090116	SYNDIG1	1376	3
19	18546247	0.000732601	ISYNA1	1365	2
18	7231423	0.000727802	LRRC30	1374	2
15	51504567	0.001451379	CYP19A1	1378	4
16	1250527	0.00295203	CACNA1H	1355	8
11	75672510	0.003265602	UVRAG	1378	9
10	131334578	0.001819505	MGMT	1374	5
16	3558304	0.002541757	CLUAP1	1377	5
2	241513642	0.001463058	RNPEPL1	1367	4
7	56154662	0.002900653	PHKG1	1379	5
14	72818818	0.001815541	RGS6	1377	4
8	77616358	0.008480826	ZFHX4	1356	23
9	131689474	0.001814224	PHYHD1	1378	4
3	197618357	0.002175489	IQCG	1379	6
11	544751	0.002552881	LRRC56	1371	7
2	85598583	0.001815541	ELMOD3	1377	5
2	39156121	0.002581121	ARHGEF33	1356	7
17	79508358	0.003277495	C17orf70	1373	9

11	99690371	0.003318584	CNTN5	1356	9
1	145527715	0.004713561	ITGA10	1379	12
6	46826791	0.001450326	GPR116	1379	3
20	36640085	0.004741065	TTI1	1371	13
19	56369661	0.002177068	NLRP4	1378	6
1	167921092	0.002541757	DCAF6	1377	7
1	225598016	0.001088534	LBR	1378	3
18	77891038	0.002175489	ADNP2	1379	6
12	109182159	0.003265602	SSH1	1378	8
2	167284295	0.003318584	SCN7A	1356	8
20	39788350	0.003988397	PLCG1	1379	10
16	67979278	0.003991292	SLC12A4	1378	10
6	32917084	0.001455604	HLA-DMA	1374	4
2	215593423	0.004713561	BARD1	1379	9
19	35739782	0.001451379	LSR	1378	4
9	5656641	0.005076142	KIAA1432	1379	13
10	47086976	0.002900653	NPY4R	1379	8
18	44101230	0.003687316	LOXHD1	1356	10
9	95062271	0.003318584	NOL8	1356	8
2	9467973	0.002175489	ASAP2	1379	6
2	163228371	0.004350979	KCNH7	1379	8
1	222700324	0.002538071	HHIPL2	1379	7
17	8701441	0.002543605	MFSD6L	1376	6
6	29572347	0.001450326	GABBR1	1379	4
7	64166759	0.002178649	ZNF107	1377	5
12	1908853	0.003321033	CACNA2D4	1355	9
6	100382284	0.002539913	MCHR2	1378	6
5	137211600	0.001450326	MYOT	1379	4
10	69648744	0.003625816	SIRT1	1379	10
22	25120917	0.002180233	PIWIL3	1376	4
22	36054858	0.001091703	APOL6	1374	3
7	92120660	0.002900653	PEX1	1379	8
2	98376145	0.005530973	TMEM131	1356	13
11	59271181	0.002900653	OR4D11	1379	4
4	7640074	0.003323486	SORCS2	1354	9
9	6793114	0.002538071	KDM4C	1379	7
7	138740016	0.002175489	ZC3HAV1	1379	6
5	80626703	0.001452433	ACOT12	1377	4
10	75562778	0.002900653	NDST2	1379	8
11	67262574	0.002183406	PITPNM1	1374	6
16	87742015	0.002902758	KLHDC4	1378	7
10	7751147	0.003263234	ITIH2	1379	9
16	2546530	0.002192982	TBC1D24	1368	6
8	18413784	0.003263234	PSD3	1379	9
12	50027698	0.003631082	PRPF40B	1377	10
4	15626981	0.003988397	FBXL5	1379	11
6	64286835	0.001459854	PTP4A1	1370	1
4	23803901	0.001450326	PPARGC1A	1379	4

3	52940176	0.001812908	SFMBT1	1379	5
9	140330508	0.001100514	ENTPD8	1363	3
19	4852073	0.001461988	PLIN3	1368	4
17	73625162	0.003272727	RECQL5	1375	9
14	24702463	0.001087745	GMPR2	1379	3
3	44283750	0.001476015	TOPAZ1	1355	4
5	56167808	0.002538071	MAP3K1	1379	6
13	46543584	0.002900653	ZC3H13	1379	8
11	113780016	0.001812908	HTR3B	1379	5
22	43604096	0.001094092	SCUBE1	1371	3
21	42749758	0.002177068	MX2	1378	6
19	15198267	0.000729927	OR1I1	1370	2
15	22835967	0.002902758	TUBGCP5	1378	6
10	98369525	0.002177068	PIK3AP1	1378	6
1	176863741	0.004720407	ASTN1	1377	10
3	49274082	0.001451379	CCDC36	1378	4
1	203652491	0.002538071	ATP2B4	1379	7
6	149833316	0.001454545	PPIL4	1375	4
11	17981111	0.001450326	SERGEF	1379	4
11	67223660	0.001463058	CABP4	1367	4
9	123716108	0.00399419	C5	1377	11
7	91779937	0.003690037	LRRD1	1355	8
3	170078264	0.002900653	SKIL	1379	8
17	47299486	0.00074239	ABI3	1347	2
18	32395888	0.001815541	DTNA	1377	5
10	102584444	0.001091703	PAX2	1374	3
7	120991306	0.001456664	FAM3C	1373	4
9	130083043	0.003263234	GARNL3	1379	9
2	241420452	0.002541757	ANKMY1	1377	6
16	68264787	0.003631082	ESRP2	1377	8
10	70641725	0.002900653	STOX1	1379	8
10	99211996	0.000725163	ZDHHC16	1379	2
2	130949418	0.000732064	TUBA3E	1366	2
2	234526661	0.003263234	UGT1A8	1379	9
14	74402742	0.002900653	FAM161B	1379	6
5	16463642	0.001087745	ZNF622	1379	3
16	3187423	0.001094092	ZNF213	1371	3
2	55470142	0.002900653	MTIF2	1379	7
16	21245101	0.001451379	ANKS4B	1378	4
20	61340749	0.001819505	NTSR1	1374	5
2	69009401	0.002178649	ARHGAP25	1377	5
6	43305278	0.00688905	ZNF318	1379	19
21	46875715	0.00255102	COL18A1	1372	7
17	3475436	0.003272727	SHPK	1375	9
1	6586036	0.001450326	NOL9	1379	3
3	51429740	0.002906977	RBM15B	1376	8
1	79358842	0.003628447	ELTD1	1378	7
2	217279581	0.001450326	SMARCAL1	1379	4

18	25543389	0.002909091	CDH2	1375	8
16	14312685	0.004350979	MKL2	1379	11
12	55688605	0.001451379	OR6C6	1378	3
10	70992643	0.003267974	HKDC1	1377	8
5	177419951	0.002196193	PROP1	1366	5
11	66283330	0.002538071	BBS1	1379	7
12	53662581	0.004350979	ESPL1	1379	12
17	35880693	0.003267974	SYNRG	1377	8
3	124709628	0.005535055	HEG1	1355	12
11	18434351	0.001455604	LDHC	1374	3
5	40843559	0.004350979	CARD6	1379	9
3	183873428	0.002539913	DVL3	1378	7
1	179077019	0.002538071	ABL2	1379	7
1	55075378	0.001818182	FAM151A	1375	5
9	139307281	0.002541757	PMPCA	1377	7
2	169404165	0.001088534	CERS6	1378	3
1	162469892	0.001451379	UHMK1	1378	4
6	31675243	0.001454545	LY6G6F	1375	4
16	77227426	0.002900653	MON1B	1379	8
16	89348254	0.003625816	ANKRD11	1379	10
1	28354321	0.001815541	EYA3	1377	4
17	40010576	0.001452433	KLHL11	1377	3
19	10203323	0.001454545	ANGPTL6	1375	4
18	60217654	0.001474926	ZCCHC2	1356	4
10	129839240	0.002175489	PTPRE	1379	6
3	42230571	0.003988397	TRAK1	1379	11
4	122590810	0.001815541	ANXA5	1377	5
22	42981820	0.003263234	POLDIP3	1379	9
15	73409025	0.003625816	NEO1	1379	9
9	114289896	0.002900653	ZNF483	1379	6
3	112324307	0.003625816	CCDC80	1379	9
19	17641657	0.001090116	FAM129C	1376	3
11	6637916	0.001087745	TPP1	1379	3
20	30432393	0.002930403	FOXS1	1365	7
1	244641221	0.002538071	C1orf101	1379	7
1	170914660	0.003263234	MROH9	1379	8
19	38827935	0.002177068	CATSPERG	1378	6
15	44048887	0.001814224	PDIA3	1378	5
17	71231754	0.002175489	C17orf80	1379	5
1	183711354	0.003263234	RGL1	1379	9
21	30910139	0.002900653	GRIK1	1379	7
13	113459274	0.004350979	ATP11A	1379	12
11	93486890	0.001815541	C11orf54	1377	5
4	39839551	0.001476015	PDS5A	1355	3
1	150970611	0.002541757	FAM63A	1377	6
8	94934262	0.001478197	PDP1	1353	3
16	67401130	0.003263234	LRRC36	1379	9
3	55984479	0.002212389	ERC2	1356	6

19	52909188	0.001453488	ZNF528	1376	4
16	71605518	0.002538071	TAT	1379	6
9	2056840	0.001814224	SMARCA2	1378	5
8	120754857	0.004350979	TAF2	1379	10
17	49048137	0.002902758	SPAG9	1378	8
7	44797522	0.001454545	ZMIZ2	1375	4
11	48238473	0.002900653	OR4B1	1379	7
19	41008068	0.002178649	SPTBN4	1377	6
16	74486021	0.002904866	GLG1	1377	7
19	46376087	0.001100514	FOXA3	1363	2
3	167000182	0.002539913	ZBBX	1378	7
10	23220962	0.003267974	ARMC3	1377	9
9	111653607	0.001814224	IKBKAP	1378	5
17	1375253	0.002911208	MYO1C	1374	8
18	77170981	0.00182615	NFATC1	1369	5
12	53586197	0.002539913	ITGB7	1378	7
21	43221729	0.003991292	PRDM15	1378	10
6	160663380	0.002180233	SLC22A2	1376	6
7	99999547	0.002900653	ZCWPW1	1379	8
3	12610497	0.002538071	MKRN2	1379	7
3	35732431	0.004350979	ARPP21	1379	12
5	176308161	0.002541757	HK3	1377	7
8	8175897	0.003997093	SGK223	1376	11
21	46308695	0.002545455	ITGB2	1375	6
10	71164655	0.003270349	TACR2	1376	8
12	104697896	0.001474926	EID3	1356	4
8	22033697	0.003270349	BMP1	1376	8
1	89729550	0.002902758	GBP5	1378	8
13	25255743	0.003628447	ATP12A	1378	9
12	57389172	0.001812908	GPR182	1379	4
12	50452658	0.002541757	ASIC1	1377	7
1	204375254	0.003263234	PPP1R15B	1379	9
17	58303481	0.00181686	USP32	1376	3
2	47202204	0.002180233	TTC7A	1376	6
3	51992822	0.002178649	PCBP4	1377	6
13	25008724	0.001812908	PARP4	1379	5
6	30652228	0.001451379	PPP1R18	1378	4
17	72858946	0.001458789	FDXR	1371	4
17	56321420	0.003267974	LPO	1377	8
6	116966876	0.001814224	ZUFSP	1378	5
20	57766151	0.003988397	ZNF831	1379	11
2	27351851	0.003625816	ABHD1	1379	10
17	34892975	0.001450326	PIGW	1379	3
16	19539310	0.001450326	CCP110	1379	4
11	70118367	0.003265602	PPFIA1	1378	9
7	97766686	0.003265602	LMTK2	1378	9
20	31622660	0.003625816	BPIFB6	1379	8
10	88428521	0.004357298	LDB3	1377	11

2	17860199	0.003988397	SMC6	1379	10
3	64507875	0.004350979	ADAMTS9	1379	12
4	120072078	0.001453488	MYOZ2	1376	4
8	59720794	0.002175489	TOX	1379	6
12	53499350	0.002180233	SOAT2	1376	4
19	36351859	0.001827485	KIRREL2	1368	5
11	57367424	0.001088534	SERPING1	1378	3
7	4823352	0.001121915	AP5Z1	1337	2
18	72228100	0.002175489	CNDP1	1379	6
6	54735226	0.003625816	FAM83B	1379	9
4	87643567	0.005530973	PTPN13	1356	15
5	140800885	0.004363636	PCDHGA11	1375	11
4	187070724	0.002175489	FAM149A	1379	6
14	47120429	0.001087745	RPL10L	1379	3
3	171571506	0.000738007	TMEM212	1355	2
15	59182531	0.002175489	SLTM	1379	5
4	2986269	0.004350979	GRK4	1379	11
9	94486144	0.003263234	ROR2	1379	9
11	57076547	0.002900653	TNKS1BP1	1379	8
7	44556367	0.003633721	NPC1L1	1376	7
15	83499828	0.001845018	WHAMM	1355	5
16	67964087	0.001461988	CTRL	1368	4
2	230643697	0.002538071	TRIP12	1379	7
17	38420849	0.001094092	WIPF2	1371	2
2	135815600	0.002538071	RAB3GAP1	1379	7
2	70066641	0.001814224	GMCL1	1378	5
4	41941346	0.001087745	TMEM33	1379	3
16	19586431	0.002900653	C16orf62	1379	8
1	223284041	0.002538071	TLR5	1379	7
18	33779796	0.002539913	MOCOS	1378	7
11	60640654	0.002175489	ZP1	1379	6
2	231738147	0.002177068	ITM2C	1378	6
8	30916050	0.004350979	WRN	1379	10
11	93754700	0.003687316	HEPHL1	1356	10
9	135276852	0.002900653	TTF1	1379	6
18	12951854	0.001812908	SEH1L	1379	4
16	11931673	0.002175489	RSL1D1	1379	6
9	35616180	0.001087745	CD72	1379	3
15	55611473	0.002949853	PIGB	1356	7
15	45464139	0.001845018	SHF	1355	3
3	160122150	0.003265602	SMC4	1378	8
5	140480260	0.002538071	PCDHB3	1379	7
6	97676900	0.002538071	MMS22L	1379	7
12	100685357	0.003263234	SCYL2	1379	8
11	130318924	0.002547307	ADAMTS15	1374	6
2	25359464	0.001107829	EFR3B	1354	3
17	61557223	0.005442671	ACE	1378	13
19	18649157	0.001107011	FKBP8	1355	3

5	150027515	0.003316139	SYNPO	1357	8
4	73161477	0.001815541	ADAMTS3	1377	4
1	160261622	0.002538071	COPA	1379	7
20	30745684	0.000726216	TM9SF4	1377	2
17	25909717	0.001845018	KSR1	1355	5
2	10742976	0.003692762	NOL10	1354	6
5	130766995	0.003625816	RAPGEF6	1379	10
20	3240645	0.003988397	C20orf194	1379	9
1	181452954	0.002583026	CACNA1E	1355	6
2	29221053	0.002949853	FAM179A	1356	8
2	233243523	0.001822157	ALPP	1372	5
19	49894142	0.002581121	CCDC155	1356	5
11	34470895	0.002900653	CAT	1379	8
15	40764025	0.002538071	CHST14	1379	6
4	55133561	0.001088534	PDGFRA	1378	3
19	5914582	0.001455604	CAPS	1374	4
17	56232615	0.002175489	OR4D1	1379	6
2	162660982	0.00295203	SLC4A10	1355	6
2	108998315	0.001450326	SULT1C4	1379	4
3	148545794	0.002538071	CPB1	1379	7
1	205886483	0.001812908	SLC26A9	1379	5
11	108031949	0.002900653	NPAT	1379	7
2	143986157	0.002538071	ARHGAP15	1379	7
5	140201437	0.002175489	PCDHA5	1379	5
17	72218715	0.001453488	TTYH2	1376	4
9	131223219	0.003267974	ODF2	1377	8
10	70719766	0.002538071	DDX21	1379	7
2	131672720	0.003628447	ARHGEF4	1378	10
7	77762282	0.002538071	MAGI2	1379	7
7	141464164	0.001088534	TAS2R3	1378	3
1	152732121	0.003267974	KPRP	1377	9
2	202587786	0.002900653	ALS2	1379	7
11	7021547	0.001450326	ZNF214	1379	4
19	34791520	0.002900653	KIAA0355	1379	8
12	83251066	0.001087745	TMTC2	1379	2
10	21804505	0.001474926	SKIDA1	1356	4
1	151378224	0.003625816	POGZ	1379	8
16	84456059	0.002906977	ATP2C2	1376	8
4	109753567	0.001812908	COL25A1	1379	5
12	78362413	0.00688905	NAV3	1379	18
16	1995607	0.001451379	RPL3L	1378	4
3	194150504	0.002538071	ATP13A3	1379	7
3	185969639	0.003625816	DGKG	1379	8
7	155530230	0.00479351	RBM33	1356	11
17	26094751	0.002178649	NOS2	1377	5
20	55026917	0.002538071	CASS4	1379	7
1	16046322	0.002949853	PLEKHM2	1356	7
16	27640050	0.004350979	KIAA0556	1379	10

17	7557505	0.001088534	ATP1B2	1378	3
12	39087554	0.001812908	CPNE8	1379	5
22	39908359	0.002539913	MIEF1	1378	7
11	46766085	0.003263234	CKAP5	1379	9
5	38904569	0.003625816	OSMR	1379	9
6	74176037	0.001087745	MTO1	1379	3
12	48501171	0.003988397	PFKM	1379	10
1	91817110	0.001453488	HFM1	1376	4
12	56563567	0.002175489	SMARCC2	1379	5
6	49407937	0.003263234	MUT	1379	8
10	63958124	0.001814224	RTKN2	1378	5
19	38935306	0.011240029	RYR1	1379	28
19	33095176	0.00399419	ANKRD27	1377	8
12	3387738	0.001451379	TSPAN9	1378	3
10	7214468	0.002178649	SFMBT2	1377	6
14	59112041	0.002175489	DACT1	1379	6
2	60997646	0.001450326	PAPOLG	1379	4
14	69520612	0.001814224	DCAF5	1378	5
9	37518180	0.003318584	FBXO10	1356	8
17	27943099	0.001815541	CORO6	1377	5
10	106037710	0.003625816	GSTO2	1379	6
2	220074749	0.002900653	ABCB6	1379	8
19	14578434	0.001458789	PKN1	1371	4
12	32133993	0.003988397	KIAA1551	1379	10
9	116151292	0.002541757	ALAD	1377	6
7	70853257	0.001087745	WBSCR17	1379	3
4	138449772	0.001088534	PCDH18	1378	3
3	10861514	0.001812908	SLC6A11	1379	5
10	114849165	0.001452433	TCF7L2	1377	4
11	3832503	0.001090116	PGAP2	1376	3
12	99052949	0.003265602	APAF1	1378	8
19	11283754	0.002177068	KANK2	1378	6
20	4839950	0.001451379	SLC23A2	1378	3
15	83428326	0.002949853	FSD2	1356	8
3	42727319	0.001815541	KLHL40	1377	5
19	34857306	0.002539913	GPI	1378	7
17	61601650	0.003265602	KCNH6	1378	9
4	167656166	0.000725689	SPOCK3	1378	2
5	140166671	0.002543605	PCDHA1	1376	6
14	24617197	0.001452433	RNF31	1377	4
1	11737659	0.000732064	MAD2L2	1366	2
20	31954753	0.001819505	CDK5RAP1	1374	5
17	42475665	0.005438724	GPATCH8	1379	11
12	72667223	0.002181818	TRHDE	1375	6
20	3778304	0.002900653	CDC25B	1379	8
11	7060093	0.004350979	NLRP14	1379	12
4	74350057	0.002538071	AFM	1379	7
14	39647050	0.002539913	PNN	1378	7

7	11014507	0.002949853	PHF14	1356	7
3	130399899	0.002180233	PIK3R4	1376	6
12	53069000	0.001450326	KRT1	1379	4
15	72637846	0.002538071	HEXA	1379	7
5	86564976	0.003625816	RASA1	1379	10
10	99125966	0.002539913	RRP12	1378	6
11	1015906	0.002217295	MUC6	1353	6
8	67488589	0.001843658	MYBL1	1356	4
5	78077686	0.002904866	ARSB	1377	8
1	155223499	0.001456664	FAM189B	1373	4
1	171753031	0.001450326	METTL13	1379	4
10	74770790	0.001450326	P4HA1	1379	4
19	50939883	0.002583026	MYBPC2	1355	7
8	27957430	0.002900653	ELP3	1379	8
1	78167140	0.003263234	USP33	1379	9
18	56998751	0.001812908	LMAN1	1379	5
3	9854721	0.003988397	TTLL3	1379	11
16	2100464	0.004350979	TSC2	1379	12
4	44684361	0.002900653	GUF1	1379	7
5	95084153	0.001450326	RHOBTB3	1379	4
7	158528271	0.002177068	ESYT2	1378	6
22	38206067	0.002180233	GCAT	1376	6
10	34420496	0.002539913	PARD3	1378	7
16	4855263	0.001450326	GLYR1	1379	4
3	19930073	0.001107011	EFHB	1355	3
19	11507922	0.003265602	RGL3	1378	9
5	40999820	0.004056047	MROH2B	1356	11
3	61989111	0.002539913	PTPRG	1378	7
1	110754140	0.005801305	KCNC4	1379	11
1	179561764	0.001814224	TDRD5	1378	5
12	123265750	0.002539913	CCDC62	1378	6
16	3713517	0.003263234	TRAP1	1379	9
2	136610473	0.002175489	MCM6	1379	5
3	122404146	0.002949853	PARP14	1356	8
19	45206691	0.001478197	CEACAM16	1353	4
15	28362243	0.003263234	HERC2	1379	9
10	116056805	0.001812908	AFAP1L2	1379	5
6	168461624	0.002556611	FRMD1	1369	6
19	30935424	0.002543605	ZNF536	1376	7
20	39974447	0.002900653	LPIN3	1379	8
6	117824972	0.001452433	DCBLD1	1377	4
20	2573025	0.003988397	TMC2	1379	10
4	30724428	0.003263234	PCDH7	1379	7
3	29476329	0.002539913	RBMS3	1378	5
15	40475979	0.002178649	BUB1B	1377	6
16	4786645	0.001815541	C16orf71	1377	5
21	33694200	0.003323486	URB1	1354	8
7	105278944	0.002178649	ATXN7L1	1377	3

14	96986504	0.001450326	PAPOLA	1379	4
18	28574208	0.002900653	DSC3	1379	7
7	75172283	0.003625816	HIP1	1379	9
2	39213270	0.002538071	SOS1	1379	7
15	85634286	0.002539913	PDE8A	1378	6
1	111854976	0.001815541	CHIA	1377	3
22	28381324	0.003687316	TTC28	1356	10
1	113068688	0.003267974	ST7L	1377	9
1	154245888	0.001450326	HAX1	1379	4
9	35259027	0.005079826	UNC13B	1378	14
1	161092906	0.001453488	DEDD	1376	4
19	17014652	0.002911208	CPAMD8	1374	8
7	131060194	0.001812908	MKLN1	1379	5
10	20357101	0.002175489	PLXDC2	1379	6
16	4910718	0.003991292	UBN1	1378	8
19	2399177	0.002177068	TMPRSS9	1378	6
6	43152202	0.004350979	CUL9	1379	12
9	132375420	0.001466276	C9orf50	1364	3
15	73044685	0.004713561	ADPGK	1379	6
11	5172858	0.001814224	OR52A1	1378	5
17	3558379	0.003631082	CTNS	1377	6
7	91972481	0.003318584	ANKIB1	1356	9
5	176292554	0.003631082	UNC5A	1377	9
6	151626936	0.004713561	AKAP12	1379	13
5	135382090	0.002581121	TGFBI	1356	7
5	137515532	0.002538071	KIF20A	1379	7
6	138192456	0.002178649	TNFAIP3	1377	5
17	40312300	0.001823487	KCNH4	1371	5
15	102211761	0.002175489	TARSL2	1379	6
15	91479198	0.003265602	UNC45A	1378	8
12	2055430	0.003267974	DCP1B	1377	8
19	50322497	0.001090116	MED25	1376	3
2	136664969	0.001455604	DARS	1374	4
2	74058081	0.002900653	STAMBP	1379	8
9	111795591	0.002538071	TMEM245	1379	7
9	138393731	0.001812908	MRPS2	1379	4
4	2083457	0.003263234	POLN	1379	9
3	8574441	0.001452433	LMCD1	1377	4
19	57132687	0.002538071	ZNF71	1379	7
14	95662908	0.002178649	CLMN	1377	6
2	98986401	0.001814224	CNGA3	1378	5
4	121958027	0.001458789	NDNF	1371	3
12	100995456	0.002538071	GAS2L3	1379	7
17	48263258	0.002904866	COL1A1	1377	8
2	185731121	0.002538071	ZNF804A	1379	7
3	140979027	0.002902758	ACPL2	1378	6
6	41010736	0.003270349	TSPO2	1376	3
10	104163042	0.001461988	PSD	1368	4

4	183812561	0.001814224	DCTD	1378	3
6	160968904	0.002538071	LPA	1379	7
2	20201824	0.001110289	MATN3	1351	3
22	21369534	0.001474926	P2RX6	1356	2
5	140744118	0.003265602	PCDHGA5	1378	9
4	184930668	0.002581121	STOX2	1356	6
19	11618324	0.001815541	ECSIT	1377	5
12	111746114	0.002909091	CUX2	1375	7
14	102452696	0.003988397	DYNC1H1	1379	10
12	55863047	0.001452433	OR6C70	1377	4
5	142150423	0.001450326	ARHGAP26	1379	4
8	43013736	0.002949853	HGSNAT	1356	8
6	31895837	0.001450326	C2	1379	4
12	62894572	0.004354136	MON2	1378	12
14	24659761	0.002900653	TM9SF1	1379	8
9	131598308	0.002539913	CCBL1	1378	7
17	4872544	0.005079826	CAMTA2	1378	11
3	42678511	0.002177068	NKTR	1378	6
7	44147419	0.003263234	AEBP1	1379	9
5	74877135	0.002541757	POLK	1377	5
3	133476718	0.002538071	TF	1379	7
4	47853922	0.002538071	NFXL1	1379	5
7	122759188	0.001814224	SLC13A1	1378	5
4	123305006	0.001819505	ADAD1	1374	4
11	5372767	0.001450326	OR51B6	1379	4
17	76798554	0.002177068	USP36	1378	6
16	12121179	0.002539913	SNX29	1378	7
6	7334321	0.003687316	CAGE1	1356	8
17	33460378	0.001812908	NLE1	1379	5
4	7783146	0.002197802	AFAP1	1365	5
12	6882468	0.001456664	LAG3	1373	4
1	19403281	0.008701958	UBR4	1379	23
5	156734839	0.001107829	CYFIP2	1354	3
10	5768876	0.005076142	FAM208B	1379	14
16	67006302	0.001814224	CES3	1378	5
2	32626418	0.010324484	BIRC6	1356	28
3	100506613	0.003687316	ABI3BP	1356	10
5	114462368	0.002902758	TRIM36	1378	8
3	89259071	0.003263234	EPHA3	1379	9
9	116857347	0.000728863	KIF12	1372	2
5	171479943	0.002175489	STK10	1379	5
1	242013784	0.002538071	EXO1	1379	6
14	77942381	0.001824818	ISM2	1370	3
8	128750607	0.001451379	MYC	1378	4
17	38122083	0.001477105	GSDMA	1354	4
17	48452616	0.002538071	EME1	1379	6
1	50572050	0.002175489	ELAVL4	1379	5
3	184570331	0.00295203	VPS8	1355	8

3	127980976	0.003625816	EEFSEC	1379	8
15	50793027	0.001846381	USP50	1354	5
1	153921692	0.002175489	CRTC2	1379	5
3	170185028	0.003263234	SLC7A14	1379	7
6	76022130	0.002538071	FILIP1	1379	7
8	142481264	0.001477105	MROH5	1354	4
5	132534896	0.001812908	FSTL4	1379	5
1	40092619	0.001090909	HEYL	1375	3
16	31282350	0.001106195	ITGAM	1356	3
18	55218032	0.001812908	FECH	1379	5
15	86311313	0.001100514	KLHL25	1363	3
1	32201187	0.002900653	BAI2	1379	8
1	52703364	0.003628447	ZFYVE9	1378	7
11	75438607	0.001814224	MOGAT2	1378	4
4	15937667	0.001812908	FGFBP1	1379	4
17	67144968	0.003988397	ABCA10	1379	11
10	35305160	0.001450326	CUL2	1379	4
4	40829158	0.002900653	APBB2	1379	6
4	83828945	0.001812908	THAP9	1379	5
1	157660325	0.001452433	FCRL3	1377	4
7	99473863	0.001453488	OR2AE1	1376	4
19	1357090	0.001452433	MUM1	1377	4
12	117964890	0.002584934	KSR2	1354	7
7	143088723	0.003988397	EPHA1	1379	8
5	70888762	0.002543605	MCCC2	1376	7
6	161455305	0.001814224	MAP3K4	1378	5
22	31521117	0.002583026	INPP5J	1355	7
2	44003925	0.002175489	DYNC2LI1	1379	6
1	161753849	0.002177068	ATF6	1378	6
5	37816096	0.001087745	GDNF	1379	3
15	73007657	0.002177068	BBS4	1378	6
1	156639731	0.002175489	NES	1379	5
1	26688443	0.001845018	ZNF683	1355	3
12	14576971	0.003263234	ATF7IP	1379	9
5	72330489	0.002949853	FCHO2	1356	6
13	108861830	0.002207506	LIG4	1359	5
12	121854110	0.002538071	RNF34	1379	7
20	34260686	0.001451379	NFS1	1378	4
14	75248247	0.003687316	YLPM1	1356	10
19	44514571	0.001087745	ZNF230	1379	3
11	40135936	0.002913328	LRRC4C	1373	8
3	9801248	0.001452433	CAMK1	1377	4
4	100504679	0.003625816	MTTP	1379	5
6	146865200	0.001089325	RAB32	1377	3
19	9406207	0.00255102	ZNF699	1372	6
3	87289918	0.000726744	CHMP2B	1376	2
17	43226648	0.002178649	HEXIM1	1377	6
10	75258903	0.003265602	USP54	1378	8

16	23080358	0.002175489	USP31	1379	6
14	91763703	0.004056047	CCDC88C	1356	11
1	114240903	0.002902758	PHTF1	1378	8
4	100048471	0.001812908	ADH4	1379	5
1	110294674	0.001450326	EPS8L3	1379	4
10	73862171	0.001451379	ASCC1	1378	4
3	130799271	0.002539913	NEK11	1378	7
5	140864961	0.002539913	PCDHGC4	1378	6
2	191224980	0.001815541	INPP1	1377	5
5	150111027	0.001814224	DCTN4	1378	5
10	118350656	0.002902758	PNLIPRP1	1378	7
16	70351475	0.001451379	DDX19B	1378	4
13	32313774	0.002900653	RXFP2	1379	7
9	33290581	0.002177068	NFX1	1378	6
14	24791895	0.002904866	ADCY4	1377	7
22	39996621	0.002584934	CACNA1I	1354	7
9	18928148	0.002538071	FAM154A	1379	7
15	90127542	0.003988397	TICRR	1379	10
8	55533619	0.012327774	RP1	1379	32
12	121878708	0.002177068	KDM2B	1378	6
22	44328925	0.001812908	PNPLA3	1379	4
4	152498769	0.002949853	FAM160A1	1356	7
13	96237050	0.003625816	DZIP1	1379	8
19	13865114	0.001814224	CCDC130	1378	5
6	76369083	0.002175489	SENP6	1379	6
3	48602266	0.008701958	COL7A1	1379	23
16	66971939	0.003991292	CES2	1378	9
19	55492984	0.002541757	NLRP2	1377	4
4	89311932	0.002579219	HERC6	1357	6
17	9590134	0.002214022	USP43	1355	6
18	33724944	0.001815541	ELP2	1377	5
17	27004832	0.003625816	SUPT6H	1379	9
5	39124378	0.002212389	FYB	1356	6
7	148801353	0.002175489	ZNF425	1379	6
3	169539994	0.002949853	LRRIQ4	1356	7
6	96971133	0.002904866	UFL1	1377	8
17	3772886	0.001459854	CAMKK1	1370	4
14	93709047	0.001451379	BTBD7	1378	4
3	12854767	0.002178649	CAND2	1377	6
16	30593990	0.002539913	ZNF785	1378	7
4	142949957	0.002900653	INPP4B	1379	8
15	63569872	0.001451379	APH1B	1378	3
17	18770592	0.002178649	PRPSAP2	1377	5
10	100010852	0.002177068	LOXL4	1378	6
19	42392273	0.002906977	ARHGEF1	1376	7
2	207162025	0.00479351	ZDBF2	1356	13
4	148539196	0.003625816	TMEM184C	1379	5
20	58558035	0.003991292	CDH26	1378	10

17	57334510	0.00109569	GDPD1	1369	3
2	220404296	0.001465201	CHPF	1365	4
7	107688415	0.005801305	LAMB4	1379	14
11	800132	0.00146092	PIDD	1369	3
16	49407944	0.001452433	C16orf78	1377	4
2	112702621	0.002539913	MERTK	1378	7
14	74186140	0.002900653	ELMSAN1	1379	8
3	98518251	0.002949853	DCBLD2	1356	7
3	196730790	0.002188184	MFI2	1371	6
20	3722947	0.002543605	HSPA12B	1376	6
11	46332741	0.001850481	CREB3L1	1351	4
6	31655312	0.002178649	ABHD16A	1377	5
7	34978925	0.001089325	DPY19L1	1377	3
20	44472234	0.001815541	ACOT8	1377	5
19	9491694	0.001823487	ZNF177	1371	3
5	41150077	0.003631082	C6	1377	10
20	61288283	0.002539913	SLCO4A1	1378	7
7	143175002	0.002539913	TAS2R41	1378	7
16	31497162	0.00182615	SLC5A2	1369	5
19	13941226	0.001818182	ZSWIM4	1375	5
6	33259896	0.002175489	RGL2	1379	6
8	101282227	0.001089325	RNF19A	1377	3
6	29454629	0.001088534	MAS1L	1378	3
19	54783302	0.001098901	LILRB2	1365	2
7	72858414	0.003625816	BAZ1B	1379	10
1	182554492	0.002538071	RNASEL	1379	7
2	204304245	0.002539913	RAPH1	1378	7
7	872148	0.003263234	SUN1	1379	8
17	28576175	0.002175489	BLMH	1379	6
2	207814423	0.002900653	CPO	1379	6
1	78267074	0.001093294	FAM73A	1372	3
3	48701431	0.001814224	NCKIPSD	1378	5
10	35819071	0.002177068	CCNY	1378	5
2	60687994	0.00182083	BCL11A	1373	5
7	76941467	0.002900653	GSAP	1379	6
1	174417250	0.001450326	GPR52	1379	4
12	8975869	0.002902758	A2ML1	1378	8
1	6171839	0.003644315	CHD5	1372	10
1	23111026	0.00181686	EPHB2	1376	5
2	105883941	0.001814224	TGFBRAP1	1378	5
10	118451962	0.001463058	HSPA12A	1367	4
1	152192844	0.003263234	HRNR	1379	6
1	223116330	0.002900653	DISP1	1379	8
22	32924878	0.001453488	SYN3	1376	4
1	57192255	0.001458789	C1orf168	1371	4
22	41257113	0.002175489	DNAJB7	1379	6
17	1747980	0.002178649	RPA1	1377	6
7	150761300	0.00399419	SLC4A2	1377	11

5	177674780	0.002184996	COL23A1	1373	4
1	18149592	0.002177068	ACTL8	1378	5
5	98115485	0.002212389	RGMB	1356	6
1	86818606	0.001451379	ODF2L	1378	3
9	5787533	0.002538071	ERMP1	1379	7
6	80196801	0.002900653	LCA5	1379	8
4	99955383	0.001843658	METAP1	1356	5
22	38541593	0.001092498	PLA2G6	1373	3
12	120499553	0.001091703	CCDC64	1374	3
11	55904431	0.001815541	OR8J3	1377	5
1	45795006	0.002902758	MUTYH	1378	8
11	57003354	0.001456664	APLNR	1373	4
20	33576060	0.002197802	MYH7B	1365	5
19	14826971	0.002175489	ZNF333	1379	6
15	79296342	0.002541757	RASGRF1	1377	6
5	39376140	0.003265602	DAB2	1378	8
1	11907325	0.001452433	NPPA	1377	4
6	28227159	0.002900653	NKAPL	1379	7
9	91652963	0.001451379	SHC3	1378	4
3	129134196	0.001477105	EFCAB12	1354	4
20	62592694	0.002541757	ZNF512B	1377	7
17	36484183	0.003625816	GPR179	1379	10
12	49308304	0.002543605	CCDC65	1376	7
3	27173446	0.002539913	NEK10	1378	7
1	11129748	0.003263234	EXOSC10	1379	8
5	180551593	0.001452433	OR2V1	1377	4
9	676994	0.005438724	KANK1	1379	15
19	50905524	0.001812908	POLD1	1379	5
20	3529823	0.002175489	ATRN	1379	6
13	95095699	0.002539913	DCT	1378	7
11	55541085	0.003625816	OR5D13	1379	6
6	31746814	0.00255102	VARS	1372	6
4	49019273	0.002175489	CWH43	1379	6
22	29095843	0.002175489	CHEK2	1379	5
2	128249600	0.002538071	IWS1	1379	7
21	34616014	0.002541757	IFNAR2	1377	6
10	124320325	0.002214022	DMBT1	1355	6
3	9775862	0.002541757	BRPF1	1377	7
5	1414920	0.002552881	SLC6A3	1371	4
17	73832482	0.002543605	UNC13D	1376	7
4	123855432	0.002539913	SPATA5	1378	7
17	8395740	0.002539913	MYH10	1378	5
15	34533486	0.00181686	SLC12A6	1376	5
19	38706876	0.001091703	DPF1	1374	3
17	38953250	0.002175489	KRT28	1379	6
9	135553865	0.002538071	GTF3C4	1379	7
3	44943333	0.001088534	TGM4	1378	3
3	183967499	0.003265602	ECE2	1378	8

11	74421953	0.001106195	CHRDL2	1356	2
1	200008889	0.001812908	NR5A2	1379	5
16	20648699	0.00181686	ACSM1	1376	5
1	159283477	0.002900653	OR10J3	1379	7
19	35501254	0.00182083	GRAMD1A	1373	4
7	150553841	0.002175489	AOC1	1379	5
11	68660352	0.001815541	MRPL21	1377	4
19	6454687	0.002180233	SLC25A23	1376	6
1	115263192	0.002538071	CSDE1	1379	7
20	23858203	0.001457726	CST5	1372	4
1	220324597	0.001814224	RAB3GAP2	1378	5
1	231362556	0.001450326	C1orf131	1379	4
20	61909485	0.00181686	ARFGAP1	1376	5
7	129847772	0.001812908	SSMEM1	1379	5
9	139973452	0.001835536	UAP1L1	1362	5
12	124826568	0.003988397	NCOR2	1379	11
8	42552693	0.002538071	CHRNB3	1379	7
17	51900512	0.002900653	KIF2B	1379	8
13	73357689	0.002539913	PIBF1	1378	7
16	4802723	0.001453488	ZNF500	1376	4
20	25448058	0.001814224	NINL	1378	5
8	145108133	0.00295421	OPLAH	1354	8
19	8994196	0.016961652	MUC16	1356	46
7	95750604	0.002900653	SLC25A13	1379	7
3	112282260	0.003263234	SLC35A5	1379	9
11	56143152	0.001450326	OR8U1	1379	4
1	183529306	0.003267974	NCF2	1377	6
2	58388766	0.002181818	FANCL	1375	5
3	101371397	0.002538071	ZBTB11	1379	5
2	85573109	0.001814224	RETSAT	1378	5
3	14697085	0.002178649	CCDC174	1377	6
4	155718043	0.001450326	RBM46	1379	3
1	55512220	0.002913328	PCSK9	1373	7
22	17663582	0.000726216	CECR1	1377	2
12	56397545	0.002900653	SUOX	1379	8
1	158549176	0.002181818	OR10X1	1375	4
11	5862310	0.002538071	OR52E6	1379	7
3	183432993	0.003988397	YEATS2	1379	9
2	31399460	0.002581121	CAPN14	1356	6
17	8192117	0.001455604	RANGRF	1374	4
20	23345053	0.002175489	GZF1	1379	6
3	122459932	0.001089325	HSPBAP1	1377	3
5	140750222	0.00329188	PCDHGB3	1367	9
2	219610471	0.001451379	TTLL4	1378	4
17	35981228	0.002175489	DDX52	1379	6
19	8921978	0.001452433	ZNF558	1377	4
11	125778119	0.001478197	DDX25	1353	3
14	63174650	0.001812908	KCNH5	1379	5

11	64591972	0.003625816	CDC42BPG	1379	9
16	30490502	0.003263234	ITGAL	1379	8
10	115636369	0.002900653	NHLRC2	1379	7
12	129559052	0.003263234	TMEM132D	1379	8
20	36888718	0.002177068	BPI	1378	5
15	85366574	0.003988397	ALPK3	1379	8
5	38942422	0.004350979	RICTOR	1379	12
11	62397132	0.001822157	GANAB	1372	4
5	1064033	0.003265602	SLC12A7	1378	8
2	223436634	0.002538071	FARSB	1379	7
10	104486458	0.002175489	SFXN2	1379	6
16	74709584	0.002900653	MLKL	1379	7
11	61896279	0.002538071	INCENP	1379	7
14	75904813	0.001478197	JDP2	1353	2
14	86088057	0.002538071	FLRT2	1379	7
20	31671314	0.002900653	BPIFB4	1379	6
9	6328740	0.001451379	TPD52L3	1378	4
3	150285483	0.001477105	EIF2A	1354	4
5	159830454	0.002175489	SLU7	1379	6
6	24409733	0.002902758	MRS2	1378	7
3	16358478	0.001450326	RFTN1	1379	4
2	71298889	0.002539913	NAGK	1378	7
1	155007170	0.002177068	DCST1	1378	6
17	59945338	0.002581121	INTS2	1356	7
17	73808549	0.001108647	UNK	1353	3
10	31809084	0.002175489	ZEB1	1379	5
12	121592747	0.003631082	P2RX7	1377	6
14	24723919	0.002902758	TGM1	1378	7
17	7286378	0.002581121	TNK1	1356	7
5	150275881	0.001116071	ZNF300	1344	3
5	68651733	0.001450326	TAF9	1379	4
11	66107632	0.002906977	BRMS1	1376	5
17	44060882	0.002181818	MAPT	1375	5
13	41893013	0.003263234	NAA16	1379	9
2	118688650	0.002900653	CCDC93	1379	8
1	46099237	0.001812908	GPBP1L1	1379	5
22	29517461	0.001450326	KREMEN1	1379	4
19	56041122	0.002571639	SBK2	1361	6
17	42155764	0.002900653	HDAC5	1379	8
4	77476855	0.001815541	SHROOM3	1377	5
3	49866934	0.002900653	TRAIP	1379	7
7	90356107	0.001454545	CDK14	1375	4
7	116140396	0.002175489	CAV2	1379	5
7	87743952	0.001812908	ADAM22	1379	4
17	7976226	0.001457726	ALOX12B	1372	4
6	128298120	0.001812908	PTPRK	1379	5
9	119188249	0.003988397	ASTN2	1379	10
22	32874978	0.002177068	FBXO7	1378	5

19	52002869	0.002178649	SIGLEC12	1377	5
9	18622269	0.00906454	ADAMTSL1	1379	20
11	61252824	0.002192982	PPP1R32	1368	6
3	158372353	0.002538071	GFM1	1379	7
12	20522853	0.002913328	PDE3A	1373	5
19	12186384	0.001812908	ZNF844	1379	5
7	1026305	0.002915452	CYP2W1	1372	6
8	12863733	0.001478197	KIAA1456	1353	4
17	62506377	0.003318584	CEP95	1356	9
19	12874177	0.002552881	HOOK2	1371	7
2	205829957	0.002541757	PARD3B	1377	7
1	32672845	0.002543605	IQCC	1376	7
13	77632483	0.012690355	MYCBP2	1379	32
4	148744077	0.002538071	ARHGAP10	1379	7
15	43525391	0.002904866	TGM5	1377	8
19	39589732	0.001814224	PAPL	1378	5
13	32893268	0.014503263	BRCA2	1379	36
11	19173745	0.001845018	ZDHHC13	1355	5
3	142462406	0.001451379	TRPC1	1378	4
1	186273266	0.002538071	PRG4	1379	7
2	50282166	0.002581121	NRXN1	1356	7
3	40528981	0.001450326	ZNF619	1379	4
10	98079146	0.002538071	DNTT	1379	5
7	129909634	0.000726216	CPA2	1377	2
1	208224685	0.001452433	PLXNA2	1377	4
19	44791498	0.001450326	ZNF235	1379	4
19	49846546	0.001464129	TEAD2	1366	4
5	55195903	0.002175489	IL31RA	1379	6
1	240071566	0.001452433	CHRM3	1377	4
5	137534212	0.001812908	CDC23	1379	5
14	92054333	0.002175489	CATSPERB	1379	6
20	35835812	0.002175489	RPN2	1379	6
8	96044311	0.001451379	NDUFAF6	1378	4
2	208478015	0.001450326	METTL21A	1379	4
7	40220554	0.001476015	SUGCT	1355	4
10	75551102	0.002581121	ZSWIM8	1356	7
11	123813728	0.001088534	OR6T1	1378	3
1	247751663	0.001450326	OR2G2	1379	3
1	53675888	0.002175489	CPT2	1379	6
16	1470078	0.001090909	C16orf91	1375	3
6	40399867	0.001823487	LRFN2	1371	5
11	17112906	0.003991292	PIK3C2A	1378	11
16	67226767	0.002902758	E2F4	1378	6
7	124404097	0.002180233	GPR37	1376	6
16	85667549	0.002541757	GSE1	1377	7
3	153839840	0.001476015	ARHGEF26	1355	4
13	78318433	0.001812908	SLAIN1	1379	5
16	54318966	0.00148258	IRX3	1349	4

16	20926936	0.001815541	LYRM1	1377	4
12	53291303	0.001830161	KRT8	1366	4
5	138714338	0.001098097	SLC23A1	1366	3
5	73931035	0.001812908	ENC1	1379	4
11	43904130	0.002180233	ALKBH3	1376	6
18	10485507	0.002538071	APCDD1	1379	7
11	10783542	0.003625816	CTR9	1379	10
22	24583341	0.001463058	SUSD2	1367	3
3	15258986	0.003991292	CAPN7	1378	7
7	30363342	0.001092498	ZNRF2	1373	3
17	41105777	0.002900653	PTGES3L-AARSD1	1379	7
20	25655682	0.002900653	ZNF337	1379	8
22	23523638	0.002539913	BCR	1378	7
2	183818055	0.001812908	NCKAP1	1379	5
11	20628592	0.001450326	SLC6A5	1379	4
1	211527762	0.001814224	TRAF5	1378	5
14	36004159	0.001843658	INSM2	1356	2
22	41716680	0.002909091	ZC3H7B	1375	6
19	49838977	0.002177068	CD37	1378	5
6	159128294	0.003628447	SYTL3	1378	8
16	2259431	0.002549162	BRICD5	1373	7
19	44377272	0.001843658	ZNF404	1356	5
11	497988	0.001458789	RNH1	1371	4
4	89016699	0.001814224	ABCG2	1378	5
11	27390035	0.001812908	LGR4	1379	5
5	137776707	0.001093294	REEP2	1372	3
11	117982500	0.001464129	TMPRSS4	1366	4
6	155728279	0.002539913	NOX3	1378	7
7	73245585	0.00149925	CLDN4	1334	3
8	145657667	0.002181818	TONSL	1375	5
11	117303197	0.002902758	DSCAML1	1378	7
7	120965491	0.002175489	WNT16	1379	5
13	103339388	0.002541757	METTL21C	1377	6
6	133070986	0.001812908	VNN2	1379	5
6	33169065	0.003625816	SLC39A7	1379	10
19	12296660	0.002175489	ZNF136	1379	6
1	11087637	0.002539913	MASP2	1378	6
12	113599154	0.002541757	DDX54	1377	7
11	612718	0.001457726	IRF7	1372	4
1	110883798	0.001840943	RBM15	1358	5
13	27250686	0.001452433	WASF3	1377	3
9	114986167	0.001812908	PTBP3	1379	5
19	44590173	0.001814224	ZNF284	1378	5
17	18219666	0.001461988	SMCR8	1368	4
1	178389662	0.003625816	RASAL2	1379	8
10	97956809	0.001451379	BLNK	1378	4
10	3185636	0.002212389	PITRM1	1356	6
13	70370927	0.001090116	KLHL1	1376	2

19	19790130	0.001451379	ZNF101	1378	4
15	91083286	0.002175489	CRTC3	1379	6
17	2246876	0.002547307	SGSM2	1374	7
2	85628321	0.001454545	CAPG	1375	4
17	73481988	0.004713561	KIAA0195	1379	13
16	24888633	0.002541757	SLC5A11	1377	5
12	50575790	0.002178649	LIMA1	1377	5
9	136249665	0.001452433	C9orf96	1377	4
11	6913094	0.001450326	OR2D2	1379	4
19	51410285	0.001090909	KLK4	1375	3
10	70515259	0.002175489	CCAR1	1379	6
13	113170879	0.002902758	TUBGCP3	1378	5
9	138377269	0.001457726	PPP1R26	1372	4
9	130860964	0.001456664	SLC25A25	1373	4
14	67664921	0.002210759	FAM71D	1357	5
1	36550580	0.001450326	TEKT2	1379	4
20	33315113	0.004713561	NCOA6	1379	13
5	135601913	0.002210759	TRPC7	1357	6
20	34022003	0.002547307	GDF5	1374	7
19	56223302	0.003625816	NLRP9	1379	10
1	65303758	0.001454545	JAK1	1375	3
15	44086015	0.001812908	SERF2	1379	4
12	56713199	0.001814224	PAN2	1378	5
1	16069560	0.00182083	TMEM82	1373	5
12	51722372	0.001815541	CELA1	1377	4
16	67263559	0.003263234	FHOD1	1379	9
7	47319923	0.003267974	TNS3	1377	9
12	52307552	0.002545455	ACVRL1	1375	5
1	35577414	0.001814224	ZMYM1	1378	5
3	140692598	0.001455604	SLC25A36	1374	4
20	33842266	0.002212389	MMP24	1356	6
19	10463133	0.001455604	TYK2	1374	3
11	71941046	0.001818182	INPPL1	1375	5
6	35944980	0.001819505	SLC26A8	1374	4
19	12154704	0.002565982	ZNF878	1364	6
17	39724557	0.001812908	KRT9	1379	4
1	249144615	0.002181818	ZNF692	1375	6
19	47422266	0.003687316	ARHGAP35	1356	9
1	12806444	0.001450326	C1orf158	1379	4
17	65082984	0.003625816	HELZ	1379	10
19	1004883	0.002191381	GRIN3B	1369	4
12	5853366	0.001846381	ANO2	1354	5
8	145138650	0.001814224	GPAA1	1378	5
11	129775582	0.001451379	PRDM10	1378	4
2	139308101	0.001453488	SPOPL	1376	4
19	18218425	0.002215657	MAST3	1354	5
12	113346392	0.001452433	OAS1	1377	4
19	15052691	0.001812908	OR7C2	1379	4

17	9820631	0.001452433	GAS7	1377	3
18	13731755	0.002178649	RNMT	1377	6
4	40103733	0.003625816	N4BP2	1379	10
11	68825154	0.002900653	TPCN2	1379	6
3	50385753	0.001089325	NPRL2	1377	3
14	52474569	0.00399419	NID2	1377	9
6	78172078	0.00181686	HTR1B	1376	5
3	38049855	0.001451379	PLCD1	1378	4
17	7329134	0.001087745	C17orf74	1379	3
22	39479797	0.001088534	APOBEC3G	1378	3
12	124257397	0.012327774	DNAH10	1379	34
3	44670763	0.002539913	ZNF197	1378	6
12	133721107	0.003631082	ZNF268	1377	9
4	114095597	0.012690355	ANK2	1379	32
22	26688461	0.002178649	SEZ6L	1377	5
8	65494191	0.001114413	BHLHE22	1346	2
15	58837971	0.001088534	LIPC	1378	3
3	96533733	0.002581121	EPHA6	1356	6
18	18550326	0.002539913	ROCK1	1378	7
12	5153836	0.002543605	KCNA5	1376	6
11	112046346	0.002175489	BCO2	1379	6
8	20007218	0.002539913	SLC18A1	1378	7
20	34761800	0.002538071	EPB41L1	1379	6
1	175046789	0.002538071	TNN	1379	7
17	29546054	0.002178649	NF1	1377	6
14	24545036	0.002175489	CPNE6	1379	6
22	29907151	0.001094092	THOC5	1371	3
5	31267585	0.002538071	CDH6	1379	7
9	125377030	0.001812908	OR1Q1	1379	5
14	58796302	0.002541757	ARID4A	1377	6
2	203155895	0.001815541	NOP58	1377	5
19	5692216	0.002545455	LONP1	1375	5
11	6477547	0.001451379	TRIM3	1378	4
18	74090908	0.00295203	ZNF516	1355	8
7	106508014	0.003263234	PIK3CG	1379	8
5	129520334	0.001450326	CHSY3	1379	4
14	89041045	0.002178649	ZC3H14	1377	6
17	42734622	0.003318584	C17orf104	1356	7
4	6578415	0.002900653	MAN2B2	1379	8
11	114167289	0.002178649	NNMT	1377	6
19	19741313	0.002900653	GMIP	1379	7
16	3591869	0.003692762	NLRC3	1354	9
1	36214014	0.001815541	CLSPN	1377	5
8	146054810	0.002181818	ZNF7	1375	5
2	162870957	0.004354136	DPP4	1378	12
5	140869454	0.001450326	PCDHGC5	1379	4
5	96112107	0.002902758	ERAP1	1378	8
16	84255948	0.001452433	KCNG4	1377	4

3	81627197	0.003690037	GBE1	1355	8
7	115890504	0.001812908	TES	1379	5
16	50325753	0.003631082	ADCY7	1377	8
2	219480429	0.001846381	PLCD4	1354	5
10	75832598	0.003988397	VCL	1379	6
15	41749912	0.001451379	RTF1	1378	4
4	88401616	0.001812908	SPARCL1	1379	5
1	75037306	0.002900653	C1orf173	1379	8
4	159836356	0.002212389	C4orf45	1356	4
5	145610229	0.002538071	RBM27	1379	6
17	48613969	0.002177068	EPN3	1378	6
17	61898405	0.002175489	FTSJ3	1379	6
2	202509958	0.003687316	MPP4	1356	10
7	86988617	0.002178649	CROT	1377	6
13	96489339	0.003263234	UGGT2	1379	7
1	39876394	0.003318584	KIAA0754	1356	8
7	103777268	0.001815541	ORC5	1377	5
1	27875793	0.002189781	AHDC1	1370	5
7	158662599	0.003321033	WDR60	1355	8
2	209166996	0.004713561	PIKFYVE	1379	11
11	44129642	0.002175489	EXT2	1379	6
16	3139454	0.001819505	ZSCAN10	1374	5
19	14951918	0.001815541	OR7A10	1377	5
2	71036938	0.002900653	CLEC4F	1379	8
8	101018255	0.002538071	RGS22	1379	7
8	95522754	0.003625816	KIAA1429	1379	9
5	140306969	0.003265602	PCDHAC1	1378	9
11	209368	0.002547307	RIC8A	1374	7
11	111612843	0.002902758	PPP2R1B	1378	6
3	143691310	0.001089325	C3orf58	1377	2
4	128930154	0.001107829	C4orf29	1354	3
12	69103810	0.002539913	NUP107	1378	7
1	52820329	0.002177068	CC2D1B	1378	6
7	75687323	0.001088534	MDH2	1378	3
1	117910884	0.002175489	MAN1A2	1379	5
1	117658255	0.001450326	TRIM45	1379	4
7	30085840	0.001812908	PLEKHA8	1379	5
19	55743302	0.002586844	PPP6R1	1353	7
2	233348874	0.001099707	ECEL1	1364	2
1	44435853	0.001814224	DPH2	1378	4
19	50735247	0.003333333	MYH14	1350	9
1	214170066	0.001451379	PROX1	1378	4
17	7344796	0.002911208	FGF11	1374	5
11	65789306	0.001451379	CATSPER1	1378	4
10	33199288	0.001450326	ITGB1	1379	4
6	153019179	0.001812908	MYCT1	1379	5
1	171154950	0.001812908	FMO2	1379	5
7	73279410	0.002178649	WBSCR28	1377	6

19	40889703	0.001451379	HIPK4	1378	4
16	75642206	0.002175489	ADAT1	1379	6
1	111490640	0.001812908	LRIF1	1379	5
3	52724719	0.001450326	GNL3	1379	4
6	32134025	0.001815541	EGFL8	1377	5
12	58120921	0.002177068	AGAP2	1378	6
5	148577818	0.002539913	ABLIM3	1378	7
15	51350109	0.00181686	TNFAIP8L3	1376	5
13	38138677	0.003263234	POSTN	1379	9
17	2596147	0.00295203	CLUH	1355	7
1	881805	0.003263234	NOC2L	1379	9
6	26156631	0.001835536	HIST1H1E	1362	5
3	43474141	0.004713561	ANO10	1379	5
14	94394717	0.00147929	FAM181A	1352	4
1	112998992	0.001450326	CTTNBP2NL	1379	4
1	10132093	0.002538071	UBE4B	1379	7
14	45675312	0.003625816	MIS18BP1	1379	9
16	24135225	0.001812908	PRKCB	1379	5
9	140075242	0.001814224	ANAPC2	1378	5
11	124507062	0.002175489	SIAE	1379	5
6	47471162	0.002904866	CD2AP	1377	5
15	25924583	0.002541757	ATP10A	1377	6
21	34793994	0.004713561	IFNGR2	1379	7
11	61034956	0.001455604	VWCE	1374	4
1	248059003	0.001451379	OR2W3	1378	4
2	18757586	0.003267974	NT5C1B	1377	9
2	235950234	0.001450326	SH3BP4	1379	4
11	102195851	0.001815541	BIRC3	1377	5
8	124265896	0.002538071	ZHX1	1379	7
5	32364115	0.001818182	ZFR	1375	5
8	145638259	0.001834189	SLC39A4	1363	5
3	9710431	0.001450326	MTMR14	1379	4
9	139982554	0.003988397	MAN1B1	1379	10
1	15953248	0.001451379	DDI2	1378	3
3	53262321	0.001088534	TKT	1378	3
15	41810223	0.002538071	RPAP1	1379	6
21	43833133	0.001827485	UBASH3A	1368	5
19	18778628	0.003311258	KLHL26	1359	8
11	6815984	0.001814224	OR6A2	1378	5
15	66190401	0.001476015	MEGF11	1355	4
11	8115602	0.001451379	TUB	1378	4
1	86900243	0.002175489	CLCA2	1379	6
9	32457200	0.001812908	DDX58	1379	5
10	43615117	0.001453488	RET	1376	4
1	38039951	0.002902758	GNL2	1378	7
3	49200345	0.001814224	CCDC71	1378	5
19	1031192	0.001450326	CNN2	1379	4
14	92249472	0.002175489	TC2N	1379	6

9	125140804	0.002175489	PTGS1	1379	6
11	119181066	0.002175489	MCAM	1379	6
6	159188477	0.001450326	EZR	1379	4
2	74589219	0.002538071	DCTN1	1379	7
11	124756485	0.001452433	ROBO4	1377	4
15	78762935	0.002541757	IREB2	1377	7
3	183368716	0.002175489	KLHL24	1379	6
16	1411925	0.002560351	GNPTG	1367	7
20	61512621	0.002900653	DIDO1	1379	7
17	78184518	0.001094092	SGSH	1371	3
16	67701362	0.002217295	C16orf86	1353	6
12	103237436	0.001814224	PAH	1378	5
16	1544347	0.002538071	TELO2	1379	6
11	24750810	0.002538071	LUZP2	1379	5
8	98943535	0.001847746	MATN2	1353	5
6	52303273	0.001812908	EFHC1	1379	4
3	52729560	0.001812908	GLT8D1	1379	5
19	17729231	0.001111935	UNC13A	1349	3
9	15423935	0.002545455	SNAPC3	1375	5
10	32304464	0.002538071	KIF5B	1379	6
2	20885365	0.001450326	C2orf43	1379	4
17	75192307	0.001815541	SEC14L1	1377	5
12	106772119	0.002541757	POLR3B	1377	7
12	54379123	0.001814224	HOXC10	1378	5
4	79475637	0.002900653	ANXA3	1379	7
2	231974074	0.001450326	HTR2B	1379	4
15	34640428	0.001814224	NUTM1	1378	5
1	168698178	0.001452433	DPT	1377	3
16	23702722	0.001452433	ERN2	1377	4
1	35824925	0.005076142	ZMYM4	1379	12
8	57218194	0.001450326	SDR16C5	1379	4
4	47525104	0.005438724	ATP10D	1379	14
12	59268020	0.002900653	LRIG3	1379	7
2	228762938	0.001088534	DAW1	1378	3
15	44087633	0.001812908	SERINC4	1379	5
11	47354486	0.002581121	MYBPC3	1356	7
8	144671793	0.001836885	EEF1D	1361	5
17	6328812	0.002183406	AIPL1	1374	6
19	11685944	0.002177068	ACP5	1378	6
16	16256994	0.002904866	ABCC6	1377	8
1	27219210	0.002175489	GPATCH3	1379	6
10	118616043	0.001845018	ENO4	1355	5
19	44739698	0.002538071	ZNF227	1379	7
3	113847634	0.001453488	DRD3	1376	4
6	97051613	0.002538071	FHL5	1379	7
6	15374382	0.002902758	JARID2	1378	8
4	134072805	0.002178649	PCDH10	1377	6
14	39508241	0.002538071	SEC23A	1379	7

14	64953726	0.001812908	ZBTB25	1379	5
20	13695701	0.002175489	ESF1	1379	6
5	153709217	0.001450326	GALNT10	1379	4
11	19247287	0.002183406	E2F8	1374	4
16	68021617	0.001088534	DPEP2	1378	3
17	73559123	0.002541757	LLGL2	1377	7
3	120760593	0.002175489	STXBP5L	1379	6
5	139741630	0.002581121	SLC4A9	1356	7
17	7796638	0.001089325	CHD3	1377	3
19	3938620	0.00181686	NMRK2	1376	3
18	32822610	0.002177068	ZNF397	1378	6
9	136555548	0.001458789	SARDH	1371	4
13	20978331	0.002175489	CRYL1	1379	5
10	25464741	0.002904866	GPR158	1377	8
6	150048332	0.001452433	NUP43	1377	4
12	118506185	0.001843658	VSIG10	1356	5
19	36042373	0.002180233	ATP4A	1376	6
19	44351585	0.002539913	ZNF283	1378	4
1	204945836	0.002178649	NFASC	1377	6
3	32188181	0.002178649	GPD1L	1377	3
18	28908185	0.002175489	DSG1	1379	5
19	757769	0.002181818	MISP	1375	5
2	70486492	0.002175489	PCYOX1	1379	5
15	82444154	0.002177068	EFTUD1	1378	5
10	120796756	0.003625816	EIF3A	1379	10
19	21719909	0.002196193	ZNF429	1366	3
19	36362556	0.001815541	APLP1	1377	5
12	15661505	0.001450326	PTPRO	1379	4
2	238628178	0.002177068	LRRFIP1	1378	5
5	140348036	0.002567865	PCDHAC2	1363	7
2	33745743	0.00295858	RASGRP3	1352	6
5	3599569	0.001111935	IRX1	1349	3
6	163149376	0.002175489	PACRG	1379	3
5	37396547	0.001090116	WDR70	1376	2
3	20082246	0.002541757	KAT2B	1377	5
1	37941308	0.001450326	ZC3H12A	1379	4
1	226549681	0.002902758	PARP1	1378	8
14	69787502	0.002900653	GALNT16	1379	6
17	79219797	0.001452433	SLC38A10	1377	4
12	117660624	0.001815541	NOS1	1377	5
5	150076251	0.001091703	RBM22	1374	2
6	46563767	0.000737463	CYP39A1	1356	1
6	37336299	0.001451379	RNF8	1378	4
15	50154536	0.002900653	ATP8B4	1379	8
19	8321930	0.001827485	CERS4	1368	5
11	48346938	0.002175489	OR4C3	1379	6
17	21318680	0.002538071	KCNJ12	1379	7
10	12123537	0.003263234	DHTKD1	1379	8

17	46863698	0.001823487	TTLL6	1371	4
19	39372126	0.001457726	SIRT2	1372	4
3	52817003	0.002175489	ITIH1	1379	5
11	105948601	0.002902758	AASDHPPT	1378	8
12	57345871	0.001090116	RDH16	1376	3
5	56207087	0.001088534	SETD9	1378	3
20	54824044	0.002175489	MC3R	1379	6
22	19171102	0.005169867	CLTCL1	1354	13
20	30227783	0.001090909	COX4I2	1375	3
4	103516087	0.001450326	NFKB1	1379	4
12	1023275	0.002178649	RAD52	1377	5
2	135596264	0.002177068	ACMSD	1378	6
7	45614489	0.002538071	ADCY1	1379	7
5	167826572	0.002175489	WWC1	1379	6
9	104302521	0.001814224	RNF20	1378	5
3	173322404	0.001812908	NLGN1	1379	5
12	46592512	0.002177068	SLC38A1	1378	6
2	241530281	0.002915452	CAPN10	1372	8
11	105769028	0.002539913	GRIA4	1378	7
19	15350490	0.003272727	BRD4	1375	9
13	33261294	0.001812908	PDS5B	1379	5
3	4403893	0.002539913	SUMF1	1378	6
1	109363210	0.001812908	AKNAD1	1379	5
11	119535604	0.002177068	PVRL1	1378	5
19	50542463	0.002538071	ZNF473	1379	6
12	2929264	0.001815541	ITFG2	1377	5
16	67219161	0.003272727	EXOC3L1	1375	6
3	141678557	0.002902758	TFDP2	1378	4
1	110584241	0.002177068	STRIP1	1378	5
5	131721139	0.00181686	SLC22A5	1376	4
13	33679836	0.002900653	STARD13	1379	6
15	65759103	0.001814224	DPP8	1378	4
9	140107031	0.002538071	NDOR1	1379	7
16	51173291	0.002175489	SALL1	1379	6
17	4348462	0.001456664	SPNS3	1373	4
10	46998984	0.002181818	GPRIN2	1375	6
3	119886673	0.001812908	GPR156	1379	5
17	28644230	0.001450326	TMIGD1	1379	4
16	57507600	0.002541757	DOK4	1377	6
17	39998526	0.001815541	KLHL10	1377	5
14	23341532	0.002177068	LRP10	1378	6
3	113595022	0.002538071	GRAMD1C	1379	6
16	89985788	0.002921841	TUBB3	1369	7
1	212216385	0.001450326	DTL	1379	4
15	81428959	0.001090116	C15orf26	1376	3
1	16456046	0.003991292	EPHA2	1378	9
20	45130677	0.001461988	ZNF334	1368	4
14	50798873	0.000735294	ATP5S	1360	1

5	151771895	0.002543605	NMUR2	1376	4
19	49376948	0.002902758	PPP1R15A	1378	8
7	110526723	0.001087745	IMMP2L	1379	2
17	40936583	0.002175489	WNK4	1379	6
19	15508358	0.001846381	AKAP8L	1354	5
17	3582919	0.002539913	P2RX5	1378	6
1	206820964	0.001815541	DYRK3	1377	5
14	103566819	0.001110289	EXOC3L4	1351	3
4	157999217	0.001812908	GLRB	1379	5
10	16526729	0.002538071	PTER	1379	5
11	55110755	0.001815541	OR4A16	1377	5
5	65342238	0.003263234	ERBB2IP	1379	6
16	1894871	0.001830161	MEIOB	1366	4
1	161953662	0.001452433	OLFML2B	1377	4
16	68155950	0.003625816	NFATC3	1379	10
16	14016001	0.002900653	ERCC4	1379	8
6	88120327	0.002180233	C6orf165	1376	5
16	68288903	0.002188184	PLA2G15	1371	6
19	10221428	0.002194587	PPAN	1367	4
3	48488458	0.001818182	ATRIP	1375	5
2	216238125	0.002180233	FN1	1376	5
4	110865141	0.002538071	EGF	1379	7
19	11891225	0.001812908	ZNF441	1379	5
2	99681521	0.001814224	TSGA10	1378	4
3	58296307	0.002545455	RPP14	1375	3
14	94401039	0.002177068	ASB2	1378	6
4	17819656	0.002900653	NCAPG	1379	8
14	23856779	0.003988397	MYH6	1379	11
1	109261538	0.001812908	FNDC7	1379	5
17	4804105	0.001830161	CHRNE	1366	5
16	20430716	0.001815541	ACSM5	1377	5
9	37486477	0.003263234	POLR1E	1379	7
3	183952435	0.002584934	VWA5B2	1354	7
2	157182394	0.001451379	NR4A2	1378	4
3	3886693	0.002538071	LRRN1	1379	6
4	71275103	0.001450326	PROL1	1379	4
9	94984880	0.002902758	IARS	1378	7
9	72723219	0.002177068	MAMDC2	1378	5
8	17726059	0.001450326	FGL1	1379	4
16	84212999	0.002177068	TAF1C	1378	6
14	20940523	0.001088534	PNP	1378	3
19	3005723	0.001476015	TLE2	1355	4
4	144336816	0.003625816	GAB1	1379	7
14	52164923	0.002175489	FRMD6	1379	6
10	27405021	0.001814224	YME1L1	1378	5
11	67377973	0.002545455	NDUFV1	1375	6
16	10841059	0.001815541	NUBP1	1377	5
12	41303880	0.002178649	CNTN1	1377	6

19	6916259	0.001451379	EMR1	1378	4
2	38525631	0.002538071	ATL2	1379	5
4	54327630	0.002177068	LNX1	1378	6
17	39670925	0.003265602	KRT15	1378	9
3	49548008	0.001454545	DAG1	1375	4
2	143685270	0.001451379	KYNU	1378	4
1	117484337	0.001812908	PTGFRN	1379	5
3	186445075	0.002177068	KNG1	1378	4
13	48919291	0.001812908	RB1	1379	5
1	247978446	0.002902758	OR14A16	1378	7
15	44630018	0.001451379	CASC4	1378	4
10	101816847	0.001453488	CPN1	1376	4
7	144245651	0.001818182	TPK1	1375	4
15	56140743	0.002900653	NEDD4	1379	8
2	172180821	0.001087745	METTL8	1379	3
10	13213041	0.003263234	MCM10	1379	7
9	125042728	0.001815541	MRRF	1377	5
16	3706128	0.002178649	DNASE1	1377	5
13	114152811	0.002902758	TMCO3	1378	8
2	32515561	0.002180233	YIPF4	1376	2
3	128339358	0.002541757	RPN1	1377	7
13	31860865	0.001450326	B3GALTL	1379	4
10	129676427	0.002541757	CLRN3	1377	5
13	50034246	0.002177068	SETDB2	1378	6
4	1803636	0.002192982	FGFR3	1368	6
14	30047522	0.002538071	PRKD1	1379	7
2	98709712	0.001456664	VWA3B	1373	4
4	71654548	0.001451379	RUFY3	1378	4
5	140896426	0.003265602	DIAPH1	1378	9
5	140181788	0.002581121	PCDHA3	1356	7
19	8137018	0.005805515	FBN3	1378	16
13	24330705	0.002175489	MIPEP	1379	5
19	1073589	0.002191381	HMHA1	1369	6
2	215798890	0.006163887	ABCA12	1379	15
6	121412126	0.005438724	TBC1D32	1379	13
1	12009911	0.001815541	PLOD1	1377	5
2	36782855	0.002949853	FEZ2	1356	8
13	40253719	0.003991292	COG6	1378	8
21	19642307	0.001450326	TMPRSS15	1379	4
19	41916602	0.002541757	BCKDHA	1377	7
16	53844092	0.001814224	FTO	1378	5
14	90755357	0.001451379	NRDE2	1378	4
10	1229258	0.00182083	ADARB2	1373	5
20	37128092	0.003263234	RALGAPB	1379	9
12	51868971	0.001450326	SLC4A8	1379	4
2	27720195	0.001812908	GCKR	1379	5
19	12125770	0.002930403	ZNF433	1365	5
17	73759174	0.001476015	GALK1	1355	3

19	48565257	0.001089325	PLA2G4C	1377	3
8	57129001	0.001088534	CHCHD7	1378	3
6	31928443	0.001822157	SKIV2L	1372	4
8	48320483	0.003988397	SPIDR	1379	10
19	15276215	0.003263234	NOTCH3	1379	7
17	5353629	0.001452433	DHX33	1377	4
16	613299	0.001481481	C16orf11	1350	4
22	39813720	0.001458789	TAB1	1371	4
5	108133914	0.002900653	FER	1379	7
19	4305967	0.001814224	FSD1	1378	5
2	231103036	0.001090116	SP140	1376	3
1	53108627	0.001121915	FAM159A	1337	2
1	156438002	0.001823487	MEF2D	1371	5
4	4303925	0.003263234	ZBTB49	1379	5
19	17941359	0.001812908	JAK3	1379	5
9	13122139	0.003687316	MPDZ	1356	8
12	56732890	0.000748503	IL23A	1336	1
14	50889857	0.002215657	MAP4K5	1354	6
5	102237100	0.001815541	PAM	1377	5
11	72004500	0.004350979	CLPB	1379	10
6	11185436	0.002900653	NEDD9	1379	6
5	73045750	0.003318584	ARHGEF28	1356	9
6	34949501	0.002538071	ANKS1A	1379	7
6	31921861	0.001450326	NELFE	1379	4
3	57330915	0.008339376	DNAH12	1379	23
7	112095866	0.002538071	IFRD1	1379	6
6	109830385	0.001812908	AK9	1379	5
11	66082576	0.002545455	CD248	1375	5
9	35676076	0.001453488	CA9	1376	4
2	169757896	0.001087745	G6PC2	1379	3
6	89981409	0.001478197	GABRR2	1353	4
9	88903641	0.002900653	ZCCHC6	1379	8
4	122766720	0.002175489	BBS7	1379	6
2	191900944	0.001815541	STAT4	1377	5
7	21468962	0.002175489	SP4	1379	5
10	104404564	0.001824818	TRIM8	1370	5
7	36193991	0.001812908	EEPD1	1379	5
18	22057243	0.001450326	HRH4	1379	4
1	11807588	0.00110538	AGTRAP	1357	3
16	2024080	0.002545455	TBL3	1375	7
10	124186458	0.002175489	PLEKHA1	1379	6
2	45620235	0.005076142	SRBD1	1379	13
22	45244847	0.002543605	ARHGAP8	1376	7
7	34724273	0.001450326	NPSR1	1379	4
6	106553336	0.001450326	PRDM1	1379	4
20	21307181	0.001812908	XRN2	1379	5
15	24923113	0.002971768	NPAP1	1346	3
19	10561528	0.001455604	PDE4A	1374	4

11	118235830	0.001090909	UBE4A	1375	3
19	12800432	0.001472754	FBXW9	1358	4
1	231386807	0.002181818	GNPAT	1375	5
12	15070168	0.001819505	ERP27	1374	4
1	179013061	0.002180233	FAM20B	1376	6
12	52985315	0.001090909	KRT72	1375	3
13	20567838	0.002175489	ZMYM2	1379	6
12	71947031	0.002175489	LGR5	1379	5
12	77191240	0.001107829	ZDHHC17	1354	3
1	238045807	0.002177068	ZP4	1378	6
16	67325711	0.001814224	KCTD19	1378	5
3	154002656	0.002538071	DHX36	1379	7
3	112969578	0.003272727	BOC	1375	7
5	156917351	0.002178649	ADAM19	1377	6
14	52936772	0.003265602	TXNDC16	1378	8
3	167240265	0.003263234	WDR49	1379	8
20	61588795	0.002178649	SLC17A9	1377	6
9	130479968	0.002921841	TTC16	1369	7
3	52847466	0.002541757	ITIH4	1377	6
11	7586816	0.002900653	PPFIBP2	1379	8
3	111264034	0.001450326	CD96	1379	4
11	5363919	0.001819505	OR51B5	1374	5
7	100844125	0.000738007	MOGAT3	1355	1
19	36157722	0.002180233	UPK1A	1376	5
15	75498500	0.002539913	C15orf39	1378	7
2	233321926	0.001456664	ALPI	1373	4
4	129782910	0.001814224	JADE1	1378	5
8	135521906	0.002538071	ZFAT	1379	7
15	44120512	0.002538071	WDR76	1379	7
12	55846153	0.001812908	OR6C2	1379	5
7	120428781	0.001814224	TSPAN12	1378	4
19	38572704	0.003625816	SIPA1L3	1379	9
3	14724515	0.002175489	C3orf20	1379	6
2	9570933	0.001090116	CPSF3	1376	3
5	446385	0.001474926	EXOC3	1356	4
1	156713490	0.001457726	HDGF	1372	4
9	125315786	0.001814224	OR1N2	1378	5
21	34963514	0.00181686	CRYZL1	1376	5
2	169995840	0.010514866	LRP2	1379	28
20	23016308	0.002904866	SSTR4	1377	7
16	20329705	0.001087745	GP2	1379	3
5	54398580	0.001088534	GZMA	1378	3
5	57751379	0.001450326	PLK2	1379	4
2	220418366	0.006637168	OBSL1	1356	15
2	100903506	0.002175489	LONRF2	1379	6
10	38120626	0.001898254	ZNF248	1317	5
9	33935750	0.001815541	UBAP2	1377	5
16	21208811	0.002541757	ZP2	1377	7

9	35819965	0.003263234	FAM221B	1379	9
9	130504087	0.001819505	SH2D3C	1374	5
4	74315159	0.002175489	AFP	1379	5
9	136637092	0.002178649	VAV2	1377	5
6	143929459	0.001812908	PHACTR2	1379	5
17	72785004	0.001453488	TMEM104	1376	4
3	127649028	0.002215657	KBTBD12	1354	6
4	52860785	0.002175489	LRRC66	1379	6
1	169564084	0.002181818	SELP	1375	6
6	42672143	0.001451379	PRPH2	1378	4
9	12694177	0.002539913	TYRP1	1378	6
1	204198127	0.002177068	PLEKHA6	1378	5
11	114550401	0.001463058	NXPE2	1367	4
17	4535198	0.001815541	ALOX15	1377	5
9	131802874	0.001091703	FAM73B	1374	3
20	8130981	0.002900653	PLCB1	1379	8
3	50392788	0.002543605	TMEM115	1376	5
3	100948291	0.003263234	IMPG2	1379	9
12	6679847	0.002538071	CHD4	1379	7
1	178802640	0.002178649	RALGPS2	1377	6
19	58049057	0.003625816	ZNF549	1379	8
21	30698768	0.002902758	BACH1	1378	8
4	158142933	0.001814224	GRIA2	1378	5
16	31422689	0.003263234	ITGAD	1379	6
13	43788154	0.002175489	ENOX1	1379	5
1	203008214	0.002212389	PPFIA4	1356	6
9	125512130	0.001450326	OR1L6	1379	4
2	131520166	0.002181818	AMER3	1375	6
1	89418793	0.002181818	CCBL2	1375	5
4	113565887	0.001812908	LARP7	1379	5
9	132483016	0.001116071	PRRX2	1344	2
19	4511144	0.001843658	PLIN4	1356	4
10	72291137	0.001818182	PALD1	1375	4
10	134627741	0.002547307	TTC40	1374	7
19	36831553	0.001450326	ZFP14	1379	4
19	58131687	0.001812908	ZNF134	1379	5
11	47469503	0.001097293	RAPSN	1367	3
15	29346359	0.002900653	APBA2	1379	8
1	160582367	0.000726744	SLAMF1	1376	2
6	136686878	0.001812908	MAP7	1379	5
2	240944645	0.001452433	NDUFA10	1377	3
1	52135175	0.003263234	OSBPL9	1379	8
4	88091673	0.001088534	KLHL8	1378	3
6	74472485	0.003628447	CD109	1378	10
1	99161159	0.001458789	SNX7	1371	4
3	51127670	0.002214022	DOCK3	1355	6
8	10532233	0.000747943	C8orf74	1337	1
1	227152737	0.002902758	ADCK3	1378	8

7	16837293	0.001453488	AGR2	1376	4
20	39813817	0.002538071	ZHX3	1379	7
19	55438991	0.002902758	NLRP7	1378	7
1	197128590	0.002177068	ZBTB41	1378	6
10	7801867	0.001089325	KIN	1377	3
4	2940579	0.002538071	NOP14	1379	7
21	47407569	0.001461988	COL6A1	1368	4
2	46588085	0.002178649	EPAS1	1377	5
2	27556602	0.001450326	GTF3C2	1379	4
11	6226850	0.001451379	C11orf42	1378	4
17	33585743	0.002175489	SLFN5	1379	5
10	99968370	0.002175489	R3HCC1L	1379	6
11	128843064	0.001812908	ARHGAP32	1379	5
7	99621311	0.002177068	ZKSCAN1	1378	6
6	74320141	0.002178649	SLC17A5	1377	6
9	139357484	0.002583026	SEC16A	1355	7
8	32472071	0.003263234	NRG1	1379	9
4	1643109	0.001819505	FAM53A	1374	4
7	44609413	0.002175489	DDX56	1379	6
6	151198781	0.002539913	MTHFD1L	1378	7
14	105344265	0.002217295	CEP170B	1353	6
8	22863658	0.001451379	RHOBTB2	1378	4
1	223934818	0.002538071	CAPN2	1379	5
8	144940190	0.006190823	EPPK1	1373	17
7	100225229	0.002541757	TFR2	1377	7
18	5395657	0.002900653	EPB41L3	1379	8
19	15466022	0.001814224	AKAP8	1378	4
12	106460885	0.001454545	NUAK1	1375	4
10	99664427	0.001092498	CRTAC1	1373	3
1	161126742	0.001453488	UFC1	1376	4
3	53326115	0.002214022	DCP1A	1355	6
1	31418283	0.001814224	PUM1	1378	4
1	53440504	0.003265602	SCP2	1378	5
9	86474253	0.001450326	KIF27	1379	4
19	6427170	0.002228826	SLC25A41	1346	6
19	57085762	0.002538071	ZNF470	1379	7
12	9220815	0.003641661	A2M	1373	10
6	25770296	0.001812908	SLC17A4	1379	5
13	99338460	0.001814224	SLC15A1	1378	5
5	140730393	0.002212389	PCDHGB1	1356	6
12	21997839	0.001450326	ABCC9	1379	4
17	9804342	0.000730994	RCVRN	1368	1
7	36366397	0.002539913	KIAA0895	1378	7
1	26507039	0.002900653	CNKSR1	1379	6
10	38343693	0.002175489	ZNF33A	1379	5
11	73979282	0.001812908	P4HA3	1379	5
2	69734603	0.001107829	AAK1	1354	3
17	33434048	0.00181686	RAD51D	1376	5

3	47610607	0.001456664	CSPG5	1373	4
19	58117065	0.002538071	ZNF530	1379	6
5	1212554	0.002175489	SLC6A19	1379	6
15	66842378	0.001088534	LCTL	1378	3
19	49385331	0.001450326	TULP2	1379	4
17	3475436	0.002209131	TRPV1	1358	6
11	44069671	0.001814224	ACCSL	1378	5
11	18754843	0.001819505	PTPN5	1374	4
9	128061288	0.005076142	GAPVD1	1379	14
1	203098127	0.00181686	ADORA1	1376	5
5	150488104	0.002949853	ANXA6	1356	8
5	177569633	0.002900653	RMND5B	1379	7
17	65907716	0.003625816	BPTF	1379	9
3	37038130	0.001812908	MLH1	1379	5
2	39405806	0.001814224	CDKL4	1378	5
11	61106788	0.002539913	DAK	1378	7
16	1271930	0.001114413	TPSG1	1346	3
17	33256042	0.001812908	CCT6B	1379	5
1	235543384	0.001091703	TBCE	1374	2
9	125562499	0.002900653	OR1K1	1379	4
8	144399961	0.002543605	TOP1MT	1376	7
3	160679573	0.001450326	PPM1L	1379	4
19	58571375	0.002539913	ZNF135	1378	6
12	46758272	0.001089325	SLC38A2	1377	3
12	113285516	0.002178649	RPH3A	1377	6
10	72434563	0.002177068	ADAMTS14	1378	6
7	7612564	0.003263234	MIOS	1379	9
6	157803139	0.002539913	ZDHHC14	1378	6
8	11405559	0.001452433	BLK	1377	4
11	47810097	0.002177068	NUP160	1378	6
6	55198614	0.001453488	GFRAL	1376	4
2	10582231	0.001450326	ODC1	1379	4
2	120567454	0.001455604	PTPN4	1374	4
8	144378514	0.001480385	ZNF696	1351	4
17	73945971	0.001451379	ACOX1	1378	4
13	100511238	0.001454545	CLYBL	1375	3
5	78324417	0.001450326	DMGDH	1379	4
19	46299351	0.002538071	RSPH6A	1379	6
15	86687068	0.003323486	AGBL1	1354	4
10	105133192	0.001450326	TAF5	1379	4
3	151451826	0.001812908	AADACL2	1379	5
5	178391805	0.001453488	ZNF454	1376	4
9	103064511	0.002902758	TEX10	1378	6
2	226378131	0.001474926	NYAP2	1356	4
1	157490857	0.002902758	FCRL5	1378	7
5	94901710	0.002539913	ARSK	1378	7
4	2233769	0.003265602	HAUS3	1378	5
22	50965696	0.000728863	TYMP	1372	2

6	30131558	0.001465201	TRIM15	1365	3
22	50552138	0.002178649	MOV10L1	1377	6
4	118975171	0.002900653	NDST3	1379	8
1	151107135	0.002178649	SEMA6C	1377	5
5	161524710	0.001450326	GABRG2	1379	4
3	52255997	0.001824818	TLR9	1370	5
11	94113508	0.00181686	GPR83	1376	5
2	242572439	0.001814224	THAP4	1378	5
13	111102674	0.001822157	COL4A2	1372	5
7	157364167	0.00399419	PTPRN2	1377	9
1	115218241	0.001814224	AMPD1	1378	5
5	132431857	0.001815541	HSPA4	1377	5
6	107955379	0.001824818	SOBP	1370	5
18	55268991	0.002175489	NARS	1379	5
5	59940589	0.002175489	DEPDC1B	1379	6
1	29069257	0.001450326	YTHDF2	1379	4
3	66293663	0.001107829	SLC25A26	1354	3
2	160181379	0.004713561	BAZ2B	1379	13
10	101478136	0.002177068	COX15	1378	6
22	35717952	0.001090909	TOM1	1375	3
20	20020270	0.002900653	CRNKL1	1379	7
15	102187060	0.001090116	TM2D3	1376	3
10	101445635	0.002177068	ENTPD7	1378	5
7	148947284	0.001090116	ZNF212	1376	3
7	143013363	0.003263234	CLCN1	1379	7
11	76938936	0.002183406	GDPD4	1374	4
12	6457296	0.002906977	SCNN1A	1376	4
2	127950795	0.002178649	CYP27C1	1377	5
9	35089199	0.002178649	PIGO	1377	5
11	101793409	0.002175489	KIAA1377	1379	5
13	115002300	0.001450326	CDC16	1379	3
19	33370118	0.003263234	CEP89	1379	8
12	123419941	0.002181818	ABCB9	1375	6
3	185316769	0.001452433	SENP2	1377	4
1	151733995	0.001087745	MRPL9	1379	3
3	107492042	0.002538071	BBX	1379	6
9	134501416	0.001847746	RAPGEF1	1353	5
15	78295766	0.001843658	TBC1D2B	1356	5
8	28384879	0.001812908	FZD3	1379	5
4	1725287	0.002180233	TACC3	1376	6
1	40919950	0.001812908	ZFP69B	1379	5
17	48593961	0.00181686	MYCBPAP	1376	5
15	100269431	0.001088534	LYSMD4	1378	3
12	102542053	0.001450326	PARPBP	1379	4
4	8456482	0.001814224	TRMT44	1378	5
7	16720958	0.002177068	BZW2	1378	4
12	107113738	0.001814224	RFX4	1378	5
16	90015947	0.001836885	DEF8	1361	5

9	37692665	0.005076142	FRMPD1	1379	14
17	7216953	0.001452433	GPS2	1377	4
5	63256478	0.001461988	HTR1A	1368	4
4	46305594	0.001091703	GABRA2	1374	3
3	125855671	0.001454545	ALDH1L1	1375	4
7	130040628	0.000726744	CEP41	1376	2
19	37309591	0.002175489	ZNF790	1379	5
1	169951911	0.001812908	KIFAP3	1379	5
6	17765015	0.002949853	KIF13A	1356	8
4	89649791	0.002175489	FAM13A	1379	5
12	57918147	0.002175489	MBD6	1379	6
1	67786054	0.005801305	IL12RB2	1379	14
14	34993966	0.001450326	EAPP	1379	4
11	291099	0.001819505	ATHL1	1374	5
1	150131276	0.001131222	PLEKHO1	1326	3
2	238486663	0.001098901	RAB17	1365	3
17	40474309	0.002177068	STAT3	1378	6
17	4082271	0.002539913	ANKFY1	1378	6
3	15297728	0.002177068	SH3BP5	1378	6
11	48285468	0.001812908	OR4X1	1379	5
11	113560582	0.00147929	TMPRSS5	1352	4
8	10159070	0.002180233	MSRA	1376	6
9	135487609	0.001815541	DDX31	1377	5
5	121736798	0.001451379	SNCAIP	1378	4
5	178987142	0.001823487	RUFY1	1371	5
19	56189968	0.001846381	EPN1	1354	5
11	4411345	0.001106195	TRIM21	1356	3
7	4780592	0.002178649	FOXK1	1377	6
15	50489779	0.003263234	SLC27A2	1379	7
8	95140502	0.001812908	CDH17	1379	5
9	73151021	0.003263234	TRPM3	1379	9
2	128065243	0.001107011	MAP3K2	1355	3
1	38463367	0.001451379	FHL3	1378	4
3	37476604	0.000732601	C3orf35	1365	1
16	75681877	0.001092498	TERF2IP	1373	3
3	151012447	0.001450326	GPR87	1379	4
14	78140157	0.001451379	ALKBH1	1378	4
12	123001813	0.001087745	RSRC2	1379	3
16	58550441	0.001818182	SETD6	1375	4
3	32568313	0.001812908	DYNC1LI1	1379	5
11	64622844	0.002900653	EHD1	1379	8
10	11973766	0.002175489	UPF2	1379	5
19	41083316	0.004350979	SHKBP1	1379	12
9	95263238	0.001090116	ECM2	1376	3
18	60036010	0.001451379	TNFRSF11A	1378	4
1	43917327	0.001814224	HYI	1378	4
1	42647678	0.002175489	FOXJ3	1379	6
17	32956204	0.001455604	TMEM132E	1374	4

5	147011061	0.001452433	JAKMIP2	1377	4
10	90428395	0.00109569	LIPF	1369	3
19	54756252	0.001454545	LILRB5	1375	4
8	132957095	0.001474926	EFR3A	1356	4
2	187529287	0.001814224	ITGAV	1378	5
16	417730	0.002181818	MRPL28	1375	6
17	465822	0.002538071	VPS53	1379	6
10	115885752	0.002902758	C10orf118	1378	8
22	50962478	0.001106195	SCO2	1356	2
15	75970139	0.001850481	CSPG4	1351	4
19	49407614	0.002197802	NUCB1	1365	5
2	236839487	0.002177068	AGAP1	1378	5
19	20117112	0.001812908	ZNF682	1379	5
1	12164481	0.001450326	TNFRSF8	1379	4
1	171227228	0.002175489	FMO1	1379	5
12	81661842	0.001477105	PPFIA2	1354	4
4	186326934	0.001451379	UFSP2	1378	4
10	70045041	0.002560351	PBLD	1367	3
7	22184720	0.001480385	RAPGEF5	1351	4
1	180399382	0.001088534	ACBD6	1378	3
2	8871415	0.002900653	KIDINS220	1379	7
14	59730253	0.001451379	DAAM1	1378	4
3	15602403	0.002538071	HACL1	1379	7
3	170786638	0.002212389	TNIK	1356	6
11	73103330	0.001461988	RELT	1368	4
17	58756868	0.001450326	BCAS3	1379	4
5	151202288	0.001090116	GLRA1	1376	3
15	65490560	0.001815541	CILP	1377	5
12	96263321	0.002177068	CCDC38	1378	6
11	56085952	0.001812908	OR8K3	1379	5
12	111317777	0.00182083	CCDC63	1373	5
8	142146617	0.001450326	DENND3	1379	4
2	203332335	0.002175489	BMPR2	1379	6
6	97423897	0.001453488	KLHL32	1376	4
11	32953873	0.002900653	QSER1	1379	8
18	12463390	0.001815541	SPIRE1	1377	5
1	207078440	0.001814224	FAIM3	1378	5
6	39843150	0.001843658	DAAM2	1356	5
11	59210804	0.001450326	OR5A1	1379	4
9	26996417	0.001090909	LRRC19	1375	3
5	96215729	0.001814224	ERAP2	1378	5
12	30787076	0.003625816	IPO8	1379	7
6	100056718	0.002177068	PRDM13	1378	6
2	1497669	0.001815541	TPO	1377	5
19	9868182	0.001450326	ZNF846	1379	4
1	9067367	0.001102941	SLC2A7	1360	3
16	70688554	0.002181818	IL34	1375	6
10	29747259	0.002175489	SVIL	1379	6

3	120352056	0.001812908	HGD	1379	5
1	156555600	0.000737463	TTC24	1356	2
17	68171607	0.001454545	KCNJ2	1375	4
19	4523548	0.001454545	PLIN5	1375	4
10	135011263	0.002538071	KNDC1	1379	7
19	36120430	0.001451379	RBM42	1378	4
2	9985365	0.001451379	TAF1B	1378	4
17	1985121	0.001451379	SMG6	1378	4
1	244217636	0.001812908	ZBTB18	1379	5
17	27284387	0.001843658	SEZ6	1356	5
14	58471521	0.001812908	C14orf37	1379	5
6	154360666	0.003263234	OPRM1	1379	7
15	74173831	0.002539913	TBC1D21	1378	6
1	158747079	0.001454545	OR6N2	1375	4
2	32399147	0.001814224	SLC30A6	1378	5
16	67233593	0.002900653	ELMO3	1379	5
22	19961655	0.001819505	ARVCF	1374	4
2	220239618	0.00182083	DNPEP	1373	5
1	85561692	0.003628447	WDR63	1378	8
7	5633050	0.001098901	FSCN1	1365	3
2	219247737	0.002538071	SLC11A1	1379	7
12	25232601	0.001814224	LRMP	1378	5
14	71429002	0.006163887	PCNX	1379	17
14	42356949	0.002175489	LRFN5	1379	6
18	44579358	0.002177068	KATNAL2	1378	5
21	43896139	0.001087745	RSPH1	1379	3
1	107691286	0.001812908	NTNG1	1379	4
10	112641215	0.001450326	PDCD4	1379	4
17	39081675	0.001818182	KRT23	1375	3
1	173795925	0.001812908	DARS2	1379	5
22	46704412	0.001458789	GTSE1	1371	4
12	49390996	0.001835536	DDN	1362	5
4	20525755	0.001812908	SLIT2	1379	5
14	92597462	0.001812908	CPSF2	1379	5
19	7912706	0.001111111	EVI5L	1350	3
3	14489166	0.002177068	SLC6A6	1378	6
6	79655762	0.001450326	PHIP	1379	4
16	19184882	0.002902758	SYT17	1378	6
1	224345257	0.001094092	FBXO28	1371	2
3	6903387	0.002175489	GRM7	1379	6
8	144357213	0.001469508	GLI4	1361	4
22	50943120	0.001466276	LMF2	1364	4
5	7414795	0.001088534	ADCY2	1378	3
5	68677777	0.001455604	RAD17	1374	4
1	156561896	0.001819505	APOA1BP	1374	4
5	178408710	0.001454545	GRM6	1375	4
11	104897031	0.001451379	CASP1	1378	4
11	70266585	0.001812908	CTTN	1379	5

15	81171179	0.003263234	KIAA1199	1379	9
22	37870701	0.002188184	MFNG	1371	5
6	31630095	0.001812908	GPANK1	1379	5
3	137843180	0.001111111	A4GNT	1350	3
17	26691567	0.002556611	VTN	1369	7
8	145057502	0.00181686	PARP10	1376	5
22	51043406	0.001114413	MAPK8IP2	1346	3
5	413458	0.002178649	AHRR	1377	6
12	119554752	0.001845018	SRRM4	1355	4
8	69243574	0.002538071	C8orf34	1379	6
2	66665050	0.001843658	MEIS1	1356	4
11	102563666	0.004350979	MMP27	1379	11
1	116194069	0.003263234	VANGL1	1379	9
4	73923971	0.001814224	COX18	1378	4
16	21272591	0.001453488	CRYM	1376	3
14	24527392	0.004354136	LRRC16B	1378	11
4	123814105	0.002175489	NUDT6	1379	6
6	83667073	0.002177068	UBE3D	1378	6
4	15482448	0.002583026	CC2D2A	1355	7
13	33590978	0.002900653	KL	1379	8
2	37341889	0.002175489	EIF2AK2	1379	6
6	93956513	0.001814224	EPHA7	1378	4
2	175432598	0.001451379	WIPF1	1378	4
17	73870611	0.001454545	TRIM47	1375	4
15	43494093	0.001455604	EPB42	1374	4
5	42689041	0.002175489	GHR	1379	6
2	197066069	0.002900653	HECW2	1379	8
8	12586683	0.002900653	LONRF1	1379	6
18	71985217	0.002212389	C18orf63	1356	6
2	202672656	0.001812908	CDK15	1379	5
13	31195318	0.001812908	USPL1	1379	5
18	66504287	0.001819505	CCDC102B	1374	4
9	116925004	0.006526468	COL27A1	1379	15
10	135341072	0.00181686	CYP2E1	1376	5
2	18736477	0.001814224	RDH14	1378	4
6	123117036	0.002175489	SMPDL3A	1379	5
17	48432275	0.001454545	XYLT2	1375	4
6	170154037	0.001812908	ERMARD	1379	5
1	87188301	0.001452433	SH3GLB1	1377	3
14	35222772	0.002902758	BAZ1A	1378	6
17	63532616	0.001818182	AXIN2	1375	5
6	88311549	0.002541757	ORC3	1377	7
1	161163766	0.00181686	ADAMTS4	1376	4
2	61175211	0.002909091	PUS10	1375	7
12	75698592	0.002545455	CAPS2	1375	6
17	28296340	0.002949853	EFCAB5	1356	8
17	42849002	0.001455604	ADAM11	1374	3
7	94292949	0.00186846	PEG10	1338	5

5	141304196	0.001454545	KIAA0141	1375	4
2	74273511	0.004424779	TET3	1356	11
13	95363982	0.001088534	SOX21	1378	3
19	45855873	0.001814224	ERCC2	1378	5
19	18893957	0.002183406	COMP	1374	6
11	129735848	0.001815541	NFRKB	1377	5
2	169781235	0.002949853	ABCB11	1356	6
2	56097959	0.002538071	EFEMP1	1379	7
1	156876462	0.002900653	PEAR1	1379	8
11	62650386	0.001450326	SLC3A2	1379	4
9	36169772	0.002175489	CCIN	1379	6
9	35607361	0.001812908	TESK1	1379	5
1	22817997	0.001812908	ZBTB40	1379	5
5	43492892	0.001814224	C5orf34	1378	5
1	150902535	0.004350979	SETDB1	1379	12
1	92712634	0.001454545	GLMN	1375	4
1	3750589	0.00399419	CEP104	1377	6
4	69094544	0.001812908	TMPRSS11B	1379	5
1	167793927	0.002175489	ADCY10	1379	6
16	31473652	0.001472754	ARMC5	1358	4
5	148206497	0.003014318	ADRB2	1327	8
14	95562641	0.002175489	DICER1	1379	5
17	80680732	0.001089325	FN3KRP	1377	3
11	122850031	0.00073692	BSX	1357	2
16	47196572	0.001814224	ITFG1	1378	5
1	214488181	0.002177068	SMYD2	1378	6
4	185616545	0.001815541	CENPU	1377	4
15	68118557	0.001456664	SKOR1	1373	3
1	97564053	0.002175489	DPYD	1379	6
22	19467705	0.001822157	CDC45	1372	5
9	34241223	0.001812908	UBAP1	1379	5
11	970190	0.001474926	AP2A2	1356	4
3	143185915	0.002538071	SLC9A9	1379	6
10	135083417	0.001834189	ADAM8	1363	5
13	99114080	0.001814224	STK24	1378	3
9	127289109	0.001450326	NR6A1	1379	4
9	75520883	0.001453488	ALDH1A1	1376	4
17	7365268	0.00257732	ZBTB4	1358	6
6	148711273	0.004354136	SASH1	1378	10
12	110565878	0.001814224	IFT81	1378	5
7	87280149	0.002175489	RUNDC3B	1379	6
4	156135134	0.002175489	NPY2R	1379	6
3	69167869	0.002581121	LMOD3	1356	7
15	41188262	0.002541757	VPS18	1377	6
4	77003658	0.000725163	ART3	1379	2
19	37367778	0.001836885	ZNF345	1361	5
17	3100855	0.001451379	OR1A2	1378	4
2	67626360	0.002175489	ETAA1	1379	6

4	154633693	0.002215657	RNF175	1354	5
6	62407142	0.001812908	KHDRBS2	1379	5
11	65988174	0.001453488	PACS1	1376	4
5	140753867	0.002539913	PCDHGA6	1378	7
9	88162040	0.002175489	AGTPBP1	1379	6
20	33437806	0.002178649	GGT7	1377	5
1	202249947	0.002900653	LGR6	1379	8
19	46117947	0.001814224	EML2	1378	5
19	38229892	0.003263234	ZNF573	1379	9
8	27884551	0.002214022	NUGGC	1355	6
11	117774345	0.001452433	TMPRSS13	1377	4
7	57528457	0.001819505	ZNF716	1374	5
21	41137489	0.001088534	IGSF5	1378	3
19	10251500	0.001818182	DNMT1	1375	5
12	89992403	0.002538071	ATP2B1	1379	6
17	39983837	0.000725163	NT5C3B	1379	2
19	39949503	0.001450326	SUPT5H	1379	4
4	941600	0.001827485	TMEM175	1368	5
1	202698972	0.002902758	KDM5B	1378	8
12	110941640	0.001845018	RAD9B	1355	4
12	33535420	0.001450326	SYT10	1379	4
11	68527101	0.002904866	CPT1A	1377	5
8	99205308	0.001450326	NIPAL2	1379	4
12	117365856	0.002177068	FBXW8	1378	6
7	8167652	0.002178649	ICA1	1377	6
19	57059215	0.001450326	ZFP28	1379	4
17	30658937	0.001474926	C17orf75	1356	4
7	141952365	0.002177068	PRSS58	1378	6
8	53555357	0.00181686	RB1CC1	1376	5
3	128621409	0.001815541	ACAD9	1377	5
12	57944172	0.001815541	KIF5A	1377	5
16	85109500	0.002177068	KIAA0513	1378	6
1	167082952	0.002900653	DUSP27	1379	8
9	139250844	0.001104566	GPSM1	1358	3
10	27040623	0.001812908	ABI1	1379	5
16	67691704	0.00181686	ACD	1376	5
2	47317440	0.002175489	C2orf61	1379	6
1	27720516	0.00146092	GPR3	1369	4
12	32949092	0.002177068	PKP2	1378	6
20	3146227	0.001840943	LZTS3	1358	5
8	77895950	0.001087745	PEX2	1379	3
17	35736201	0.002583026	C17orf78	1355	7
11	83344258	0.002175489	DLG2	1379	6
3	49147927	0.002538071	USP19	1379	7
19	20002318	0.001090116	ZNF253	1376	3
3	50095377	0.001457726	RBM6	1372	4
1	41503078	0.002541757	SCMH1	1377	5
5	1330489	0.000727802	CLPTM1L	1374	2

7	133979650	0.00181686	SLC35B4	1376	5
21	37711098	0.002541757	MORC3	1377	7
15	91420416	0.001464129	FURIN	1366	4
3	134226073	0.002538071	CEP63	1379	6
11	95724692	0.002212389	MAML2	1356	6
3	39151601	0.002538071	TTC21A	1379	7
9	108363487	0.001812908	FKTN	1379	5
9	85607913	0.001814224	RASEF	1378	4
16	31502224	0.001466276	C16orf58	1364	4
14	52734917	0.001812908	PTGDR	1379	5
1	247473689	0.001819505	ZNF496	1374	5
7	73929827	0.001814224	GTF2IRD1	1378	5
2	65298624	0.001814224	CEP68	1378	5
14	24608258	0.001090909	EMC9	1375	3
1	3807200	0.001452433	C1orf174	1377	4
9	99227675	0.001088534	HABP4	1378	3
5	72144317	0.001087745	TNPO1	1379	3
15	65218275	0.002189781	ANKDD1A	1370	5
10	11312689	0.001456664	CELF2	1373	4
6	33218689	0.001812908	VPS52	1379	5
1	185089606	0.001812908	TRMT1L	1379	5
19	56319306	0.002175489	NLRP11	1379	6
7	77325800	0.002900653	RSBN1L	1379	7
17	74622169	0.001812908	ST6GALNAC1	1379	5
10	85982200	0.002175489	LRIT2	1379	6
16	2511027	0.001110289	C16orf59	1351	3
8	145745254	0.002177068	LRRC14	1378	5
8	125463260	0.001453488	TRMT12	1376	4
11	4928937	0.001812908	OR51A7	1379	5
19	13876802	0.002923977	MRI1	1368	6
6	144757220	0.013052937	UTRN	1379	32
11	15994629	0.001815541	SOX6	1377	5
2	10101221	0.001107011	GRHL1	1355	2
8	73848917	0.002177068	KCNB2	1378	5
6	37606329	0.001107829	MDGA1	1354	3
20	56136637	0.001814224	PCK1	1378	4
5	102487040	0.001092498	PPIP5K2	1373	3
10	46113658	0.001812908	ZFAND4	1379	5
4	186291850	0.002900653	LRP2BP	1379	6
10	49392609	0.002178649	FRMPD2	1377	6
11	67160181	0.001091703	RAD9A	1374	3
6	36437956	0.002902758	KCTD20	1378	3
6	169620404	0.001451379	THBS2	1378	4
10	22680680	0.00109569	SPAG6	1369	3
1	150786685	0.002177068	ARNT	1378	6
6	7558422	0.005809731	DSP	1377	16
14	75130684	0.002178649	AREL1	1377	6
17	914082	0.001090116	ABR	1376	3

5	140736088	0.002235469	PCDHGA4	1342	5
10	104183748	0.002543605	CUEDC2	1376	5
11	13733503	0.000725163	FAR1	1379	2
12	48367952	0.002180233	COL2A1	1376	6
19	18119171	0.002183406	ARRDC2	1374	5
5	76330286	0.001453488	AGGF1	1376	4
1	177225104	0.001451379	BRINP2	1378	4
12	122669132	0.001452433	LRRC43	1377	4
11	116661073	0.001098901	APOA5	1365	3
11	117859213	0.001451379	IL10RA	1378	4
6	144205443	0.001107011	ZC2HC1B	1355	3
2	120373266	0.001090909	PCDP1	1375	3
19	3644166	0.001463058	PIP5K1C	1367	4
12	107208603	0.001088534	RIC8B	1378	3
16	28877855	0.003270349	SH2B1	1376	8
14	77843814	0.001091703	SAMD15	1374	3
5	73981254	0.001450326	HEXB	1379	4
12	56811515	0.002538071	TIMELESS	1379	7
16	81077175	0.001815541	ATMIN	1377	4
12	6777085	0.001453488	ZNF384	1376	4
9	32405556	0.002175489	ACO1	1379	6
18	59166505	0.002541757	CDH20	1377	7
11	4080552	0.001814224	STIM1	1378	5
17	43893940	0.001814224	CRHR1	1378	5
20	57564026	0.001814224	NELFCD	1378	5
11	117074083	0.000726744	TAGLN	1376	2
22	21133839	0.001452433	SERPIND1	1377	3
20	18143243	0.002175489	CSRP2BP	1379	6
1	248262850	0.001450326	OR2L13	1379	4
5	131647855	0.002178649	SLC22A4	1377	5
1	47024335	0.002177068	MKNK1	1378	5
11	61503043	0.001092498	DAGLA	1373	3
13	20425914	0.002177068	ZMYM5	1378	4
7	31855763	0.002175489	PDE1C	1379	6
16	108482	0.001822157	RHBDF1	1372	5
15	90761056	0.001849112	SEMA4B	1352	5
1	151512859	0.001814224	TUFT1	1378	4
8	17447192	0.001452433	PDGFRL	1377	4
2	202967828	0.00147929	AC079354.1	1352	2
10	104120854	0.001812908	GBF1	1379	5
20	3209060	0.002539913	SLC4A11	1378	5
12	66747322	0.001450326	GRIP1	1379	4
17	66246451	0.001450326	AMZ2	1379	4
1	226923419	0.001092498	ITPKB	1373	3
2	190531048	0.001812908	ASNSD1	1379	5
9	88591631	0.001814224	NAA35	1378	5
2	32314630	0.001089325	SPAST	1377	3
19	10363028	0.002184996	MRPL4	1373	4

19	33623331	0.002541757	WDR88	1377	6
7	100201071	0.001814224	PCOLCE	1378	5
3	51667767	0.002212389	RAD54L2	1356	6
5	179250924	0.001450326	SQSTM1	1379	4
11	36119940	0.002178649	LDLRAD3	1377	5
11	72399548	0.002539913	ARAP1	1378	5
12	112480978	0.00181686	NAA25	1376	4
19	46973033	0.001090909	PNMAL1	1375	3
12	57988976	0.001087745	PIP4K2C	1379	3
3	87017872	0.001454545	VGLL3	1375	4
16	22319488	0.002904866	POLR3E	1377	8
15	43826900	0.001827485	PPIP5K1	1368	5
3	39184553	0.001451379	CSRNP1	1378	4
16	424027	0.001828822	TMEM8A	1367	5
22	29622495	0.002175489	EMID1	1379	5
17	72926506	0.001453488	OTOP2	1376	4
22	51117740	0.001850481	SHANK3	1351	4
9	139748448	0.002184996	MAMDC4	1373	4
15	23006246	0.001453488	NIPA2	1376	3
12	96131919	0.001089325	NTN4	1377	3
1	34663365	0.002538071	C1orf94	1379	7
8	42033636	0.002909091	PLAT	1375	6
4	37831741	0.002177068	PGM2	1378	4
3	50129516	0.001819505	RBM5	1374	4
11	96123874	0.001812908	JRKL	1379	5
5	143528	0.001812908	PLEKHG4B	1379	5
16	71509710	0.002205882	ZNF19	1360	6
7	138313065	0.001451379	SVOPL	1378	4
8	87060797	0.001087745	PSKH2	1379	2
5	171765488	0.002175489	SH3PXD2B	1379	6
19	57966896	0.002175489	VN1R1	1379	6
14	70237930	0.001452433	SRSF5	1377	3
8	19675729	0.001815541	INTS10	1377	5
15	90630370	0.001088534	IDH2	1378	3
6	139094944	0.001818182	CCDC28A	1375	5
15	57910273	0.001814224	GCOM1	1378	5
4	155665492	0.001097293	LRAT	1367	3
1	66031251	0.001088534	LEPR	1378	3
14	105395145	0.001092498	PLD4	1373	3
10	25312183	0.002541757	THNSL1	1377	7
1	156834587	0.001097293	NTRK1	1367	3
16	11369715	0.002184996	PRM2	1373	4
2	27355167	0.001098901	PREB	1365	2
6	491155	0.003265602	EXOC2	1378	7
2	102781660	0.002175489	IL1R1	1379	6
1	150460479	0.001450326	TARS2	1379	4
7	128441248	0.001107829	CCDC136	1354	3
1	36181316	0.002207506	C1orf216	1359	5

9	35810441	0.002539913	SPAG8	1378	5
3	98072819	0.001450326	OR5K4	1379	4
2	48037476	0.001452433	FBXO11	1377	4
1	29522725	0.002178649	MECR	1377	4
17	80377696	0.002180233	HEXDC	1376	5
7	126086361	0.001087745	GRM8	1379	3
7	5103373	0.001451379	RBAK	1378	4
14	95899657	0.002183406	SYNE3	1374	6
1	40310262	0.001091703	TRIT1	1374	3
7	99654957	0.002539913	ZSCAN21	1378	7
2	220044466	0.002538071	FAM134A	1379	7
11	62444059	0.001087745	UBXN1	1379	3
4	106640576	0.001450326	GSTCD	1379	4
7	97933602	0.001814224	BAIAP2L1	1378	5
17	74387605	0.002538071	UBE2O	1379	7
3	23996205	0.002541757	NR1D2	1377	6
8	28633275	0.001090116	INTS9	1376	3
11	6220782	0.001814224	OR52W1	1378	4
9	129728136	0.001451379	RALGPS1	1378	4
17	34147202	0.001088534	TAF15	1378	3
3	48559432	0.001452433	PFKFB4	1377	4
6	35837576	0.001477105	SRPK1	1354	4
2	26152259	0.002539913	KIF3C	1378	7
3	187086291	0.001453488	RTP4	1376	3
10	8006312	0.002900653	TAF3	1379	7
3	126207102	0.004727273	UROC1	1375	10
19	50243356	0.002178649	TSKS	1377	6
16	1389539	0.002543605	BAIAP3	1376	7
8	37686431	0.002541757	GPR124	1377	5
16	30762498	0.001450326	PHKG2	1379	4
5	167915638	0.001819505	RARS	1374	5
2	102448309	0.002949853	MAP4K4	1356	8
11	57886389	0.001459854	OR9I1	1370	4
1	3599664	0.00181686	TP73	1376	5
1	11852364	0.002175489	MTHFR	1379	5
3	49028326	0.001092498	P4HTM	1373	3
8	90777648	0.002538071	RIPK2	1379	6
3	53891012	0.002539913	IL17RB	1378	6
16	718506	0.002178649	RHOT2	1377	6
9	125611940	0.002900653	RC3H2	1379	8
9	97535387	0.002539913	C9orf3	1378	7
9	130197429	0.001812908	ZNF79	1379	5
14	23311228	0.001812908	MMP14	1379	5
6	6174866	0.002538071	F13A1	1379	7
4	71467154	0.001812908	AMBN	1379	5
9	27206749	0.002180233	TEK	1376	5
20	31608189	0.001819505	BPIFB2	1374	2
5	178030613	0.001452433	CLK4	1377	3

11	36631761	0.000729927	C11orf74	1370	2
1	53535786	0.001452433	PODN	1377	4
8	124195575	0.001090116	FAM83A	1376	3
1	114311009	0.002175489	RSBN1	1379	6
5	52160880	0.004350979	ITGA1	1379	10
6	32362608	0.001452433	BTNL2	1377	4
2	55407680	0.001812908	CLHC1	1379	5
14	94754812	0.001450326	SERPINA10	1379	4
17	12642560	0.002538071	MYOCD	1379	7
9	139945502	0.001819505	ENTPD2	1374	5
4	16165019	0.001107011	TAPT1	1355	3
11	102584153	0.001089325	MMP8	1377	3
3	125266314	0.002177068	OSBPL11	1378	6
8	75898314	0.001812908	CRISPLD1	1379	5
10	118202670	0.002178649	PNLIPRP3	1377	5
2	74643017	0.001121915	C2orf81	1337	2
17	79941482	0.001818182	ASPSCR1	1375	5
9	74312939	0.002538071	TMEM2	1379	7
8	145692965	0.001824818	KIFC2	1370	5
1	212798943	0.002547307	FAM71A	1374	7
12	91357937	0.001453488	EPYC	1376	4
11	47264310	0.001114413	ACP2	1346	2
12	48543448	0.001812908	ASB8	1379	3
16	68597352	0.002900653	ZFP90	1379	8
1	248685099	0.001451379	OR2G6	1378	4
19	39989696	0.001090116	DLL3	1376	3
11	5344771	0.001092498	OR51B2	1373	3
3	49053262	0.002538071	DALRD3	1379	6
11	65043435	0.002538071	POLA2	1379	7
3	113784243	0.000732064	QTRTD1	1366	2
6	160575850	0.001088534	SLC22A1	1378	2
8	17400865	0.001814224	SLC7A2	1378	5
20	3654885	0.00146092	ADAM33	1369	4
12	4700325	0.001815541	DYRK4	1377	5
20	50705065	0.002175489	ZFP64	1379	6
3	32746402	0.002541757	CNOT10	1377	7
14	57082731	0.001819505	TMEM260	1374	5
15	65916809	0.001477105	SLC24A1	1354	4
9	4564416	0.001453488	SLC1A1	1376	3
12	107386608	0.002541757	CRY1	1377	5
20	45216737	0.001091703	SLC13A3	1374	3
12	56119626	0.001450326	CD63	1379	4
3	47882530	0.001104566	DHX30	1358	3
17	36958424	0.002212389	CWC25	1356	6
12	65564254	0.001812908	LEMD3	1379	5
15	75673025	0.001812908	SIN3A	1379	5
18	739749	0.000726744	YES1	1376	2
8	116426408	0.001812908	TRPS1	1379	4

14	71200059	0.002902758	MAP3K9	1378	6
19	16952631	0.002178649	SIN3B	1377	5
9	131105539	0.002183406	SLC27A4	1374	4
9	35662539	0.000726216	ARHGEF39	1377	2
22	50470411	0.002583026	TTLL8	1355	7
19	10793295	0.002181818	ILF3	1375	6
5	1470999	0.00109569	LPCAT1	1369	3
12	56641497	0.001477105	ANKRD52	1354	4
14	39706167	0.002178649	MIA2	1377	6
12	21692263	0.001812908	GYS2	1379	5
8	39007309	0.001481481	ADAM32	1350	3
2	55523066	0.002175489	CCDC88A	1379	6
14	20897247	0.002214022	KLHL33	1355	6
11	72554514	0.001474926	FCHSD2	1356	4
6	42156327	0.001090116	GUCA1B	1376	3
3	48218923	0.001092498	CDC25A	1373	2
1	210577906	0.001451379	HHAT	1378	4
1	52254985	0.002900653	NRD1	1379	8
17	61723397	0.001814224	MAP3K3	1378	5
5	137284810	0.002539913	FAM13B	1378	7
1	160061663	0.002178649	IGSF8	1377	4
2	97426890	0.001812908	CNNM4	1379	5
11	111154986	0.000732064	C11orf53	1366	2
3	46306854	0.001454545	CCR3	1375	4
17	36868996	0.001453488	MLLT6	1376	4
5	179192435	0.002538071	MAML1	1379	6
16	56995938	0.002538071	CETP	1379	7
20	37555048	0.004350979	FAM83D	1379	9
7	129094318	0.001450326	STRIP2	1379	4
2	64109598	0.002538071	UGP2	1379	7
20	62223910	0.00146092	GMEB2	1369	3
18	60506079	0.002583026	PHLPP1	1355	7
20	62340080	0.001832845	ZGPAT	1364	4
16	48204059	0.002900653	ABCC11	1379	6
17	33481599	0.001814224	UNC45B	1378	5
4	106859477	0.002175489	NPNT	1379	5
5	128797350	0.002178649	ADAMTS19	1377	6
15	76580207	0.000727273	ETFA	1375	2
5	61747642	0.001451379	IPO11	1378	4
16	4513807	0.001089325	NMRAL1	1377	3
11	6629930	0.001450326	ILK	1379	3
3	186760691	0.002541757	ST6GAL1	1377	7
17	77040153	0.002541757	C1QTNF1	1377	6
19	50365460	0.001093294	PNKP	1372	3
1	146731546	0.001453488	CHD1L	1376	4
11	66617122	0.002178649	PC	1377	6
12	71054747	0.001452433	PTPRR	1377	4
17	71248799	0.001480385	CPSF4L	1351	4

12	67688864	0.001812908	CAND1	1379	5
6	90365588	0.015228426	MDN1	1379	37
7	50513014	0.002175489	FIGNL1	1379	6
11	118917499	0.002900653	HYOU1	1379	8
12	48073305	0.001091703	RPAP3	1374	3
5	70308350	0.001088534	NAIP	1378	3
7	86521162	0.001814224	KIAA1324L	1378	5
11	59603401	0.001088534	GIF	1378	2
19	1816719	0.001101322	REXO1	1362	3
11	119024971	0.002175489	ABCG4	1379	6
4	159631806	0.001450326	PPID	1379	4
1	36636587	0.001814224	MAP7D1	1378	5
4	72215748	0.002175489	SLC4A4	1379	4
15	65113185	0.001457726	PIF1	1372	2
18	12674670	0.002175489	CEP76	1379	6
20	33894548	0.001090116	UQCC1	1376	3
2	175263079	0.002900653	SCRN3	1379	7
7	100187917	0.001088534	FBXO24	1378	3
10	18840765	0.002175489	NSUN6	1379	5
13	30801643	0.001451379	KATNAL1	1378	4
17	5085169	0.002538071	ZNF594	1379	7
13	46276944	0.002175489	SPERT	1379	6
14	76147887	0.002539913	TTLL5	1378	6
1	3673314	0.001814224	CCDC27	1378	5
5	130987610	0.002175489	FNIP1	1379	6
3	10328420	0.000733138	GHRL	1364	2
5	139231271	0.002178649	NRG2	1377	6
12	44338132	0.002538071	TMEM117	1379	3
20	5932728	0.002177068	MCM8	1378	6
6	139229931	0.001814224	REPS1	1378	4
12	113633558	0.001450326	IQCD	1379	4
14	20502265	0.001090116	OR4K13	1376	3
4	55564562	0.001814224	KIT	1378	5
16	30128258	0.001455604	MAPK3	1374	4
4	185582931	0.001814224	PRIMPOL	1378	5
18	61151813	0.002541757	SERPINB5	1377	6
19	4345775	0.001102941	MPND	1360	3
3	33038602	0.002175489	GLB1	1379	4
10	134147181	0.001812908	LRRC27	1379	4
12	54894338	0.002175489	NCKAP1L	1379	6
10	96466662	0.002175489	CYP2C18	1379	6
19	34900178	0.002180233	PDCD2L	1376	4
12	95422254	0.001812908	NR2C1	1379	5
11	74799830	0.001450326	OR2AT4	1379	4
17	42635117	0.001814224	FZD2	1378	5
1	85630244	0.001474926	SYDE2	1356	4
19	33464393	0.001815541	C19orf40	1377	4
7	27797690	0.002543605	TAX1BP1	1376	7

18	2890593	0.002906977	EMILIN2	1376	7
4	140640697	0.002581121	MAML3	1356	7
16	68842384	0.001814224	CDH1	1378	4
6	44134507	0.001843658	CAPN11	1356	5
21	30250607	0.001452433	N6AMT1	1377	4
6	31831469	0.002902758	SLC44A4	1378	6
3	192635554	0.001094092	MB21D2	1371	3
17	62122725	0.00295858	ERN1	1352	7
17	56833453	0.002175489	PPM1E	1379	6
9	72338254	0.001107011	PTAR1	1355	3
3	155203498	0.002900653	PLCH1	1379	8
17	79567372	0.001107011	NPLOC4	1355	3
19	49656929	0.001450326	HRC	1379	4
1	109865615	0.001451379	SORT1	1378	4
17	38856505	0.001451379	KRT24	1378	3
16	31143856	0.001476015	PRSS8	1355	4
6	43266308	0.002196193	SLC22A7	1366	6
12	40619425	0.008701958	LRRK2	1379	23
7	133812274	0.001812908	LRGUK	1379	5
3	122168441	0.002543605	KPNA1	1376	3
11	75495680	0.002175489	DGAT2	1379	6
2	98273914	0.001094891	ACTR1B	1370	3
7	143632360	0.001087745	OR2F2	1379	3
5	54557218	0.001814224	DHX29	1378	5
7	107543933	0.002538071	DLD	1379	7
6	73713704	0.001812908	KCNQ5	1379	5
19	46997177	0.001843658	PNMAL2	1356	5
3	3170869	0.002541757	TRNT1	1377	5
7	3658838	0.008339376	SDK1	1379	19
14	100317312	0.001812908	EML1	1379	5
12	43750354	0.005530973	ADAMTS20	1356	15
2	99256642	0.001812908	MGAT4A	1379	5
15	91769585	0.001087745	SV2B	1379	3
15	73862513	0.002177068	NPTN	1378	6
12	82747002	0.002175489	CCDC59	1379	6
10	135095807	0.002538071	TUBGCP2	1379	7
7	28527793	0.001812908	CREB5	1379	4
1	162351741	0.002215657	C1orf226	1354	5
20	10019139	0.001814224	ANKEF1	1378	4
1	209963038	0.001089325	IRF6	1377	3
4	25674759	0.001450326	SLC34A2	1379	3
2	44121746	0.001087745	LRPPRC	1379	3
22	36907739	0.001815541	EIF3D	1377	5
10	97082555	0.002538071	SORBS1	1379	7
22	19118952	0.001814224	TSSK2	1378	5
13	21157112	0.002177068	IFT88	1378	6
1	228596903	0.002178649	TRIM17	1377	6
13	76335066	0.002175489	LMO7	1379	6

14	104202486	0.001451379	PPP1R13B	1378	4
10	32974943	0.001450326	C10ORF68	1379	4
2	207631451	0.001087745	FASTKD2	1379	3
6	16254966	0.002183406	GMPR	1374	5
1	116574039	0.001474926	SLC22A15	1356	4
18	64172465	0.002541757	CDH19	1377	7
1	248789555	0.002971768	OR2T11	1346	7
10	75139947	0.001812908	ANXA7	1379	5
8	95390829	0.002538071	RAD54B	1379	7
2	159035477	0.002175489	CCDC148	1379	6
19	53116349	0.001450326	ZNF83	1379	3
17	48244747	0.002902758	SGCA	1378	7
6	56880045	0.001822157	BEND6	1372	3
8	107726098	0.001098901	OXR1	1365	3
3	69987036	0.002538071	MITF	1379	4
11	126075390	0.001452433	RPUSD4	1377	4
22	24717297	0.001814224	SPECC1L	1378	4
1	150259007	0.001812908	C1orf51	1379	4
10	103609555	0.002175489	C10orf76	1379	5
12	49878445	0.001453488	SPATS2	1376	4
11	27679778	0.001087745	BDNF	1379	3
5	154173386	0.002175489	LARP1	1379	6
14	95053829	0.002175489	SERPINA5	1379	6
8	145650145	0.001091703	VPS28	1374	3
17	57093026	0.002900653	TRIM37	1379	7
9	130272447	0.001455604	FAM129B	1374	3
10	70123362	0.002175489	RUFY2	1379	6
7	2472399	0.002180233	CHST12	1376	6
6	127767776	0.003263234	KIAA0408	1379	7
5	134364528	0.002196193	PITX1	1366	6
4	7065826	0.001452433	GRPEL1	1377	4
13	103443357	0.001093294	KDELC1	1372	3
11	15197401	0.001818182	INSC	1375	4
6	20109896	0.001814224	MBOAT1	1378	5
12	133304712	0.002538071	ANKLE2	1379	7
10	43288428	0.001814224	BMS1	1378	4
5	140772422	0.002545455	PCDHGA8	1375	6
2	174081862	0.00181686	MLTK	1376	5
14	21969100	0.002175489	METTL3	1379	5
4	996154	0.002552881	IDUA	1371	7
12	108985315	0.001828822	TMEM119	1367	4
4	187004155	0.001812908	TLR3	1379	5
14	65197376	0.003265602	PLEKHG3	1378	7
9	130980909	0.001100514	DNM1	1363	3
9	71827487	0.003263234	TJP2	1379	8
8	17916381	0.002538071	ASAH1	1379	6
12	97328868	0.001093294	NEDD1	1372	3
10	5567118	0.001121076	CALML3	1338	3

5	36955724	0.004350979	NIPBL	1379	12
15	101434166	0.002186589	ALDH1A3	1372	5
11	5699534	0.001814224	TRIM5	1378	4
20	3193818	0.001814224	ITPA	1378	4
6	24653281	0.001812908	TDP2	1379	4
1	156096607	0.001454545	LMNA	1375	4
20	17474813	0.001459854	BFSP1	1370	3
11	862580	0.001843658	TSPAN4	1356	4
17	4434079	0.001831502	SPNS2	1365	5
11	27360514	0.002900653	CCDC34	1379	5
16	68349799	0.002181818	PRMT7	1375	6
1	156221207	0.002900653	SMG5	1379	7
14	101200540	0.002183406	DLK1	1374	5
17	38640762	0.001818182	TNS4	1375	5
6	151859210	0.001088534	CCDC170	1378	3
11	56309976	0.001104566	OR5M11	1358	3
22	20796407	0.00146092	KLHL22	1369	3
7	101559432	0.001451379	CUX1	1378	4
17	76067197	0.002583026	TNRC6C	1355	6
19	16847523	0.002175489	NWD1	1379	6
5	140763557	0.002227171	PCDHGA7	1347	6
11	47073998	0.002538071	C11orf49	1379	7
12	113543599	0.001451379	RASAL1	1378	4
12	2967962	0.001815541	FOXM1	1377	5
17	29119513	0.001814224	CRLF3	1378	4
19	35715868	0.001087745	FAM187B	1379	3
1	151258769	0.002539913	ZNF687	1378	6
17	7836461	0.002541757	CNTROB	1377	5
16	57690510	0.001814224	GPR56	1378	5
1	2938297	0.002191381	ACTRT2	1369	4
15	76196899	0.002178649	FBXO22	1377	4
3	136076580	0.001812908	STAG1	1379	5
17	60753221	0.002541757	MRC2	1377	7
6	44107274	0.001814224	TMEM63B	1378	5
6	119149197	0.002197802	MCM9	1365	6
6	146242315	0.003263234	SHPRH	1379	9
12	109826546	0.003318584	MYO1H	1356	7
3	31705675	0.002538071	OSBPL10	1379	6
12	101560371	0.002906977	SLC5A8	1376	4
6	129901272	0.002538071	ARHGAP18	1379	6
3	52436827	0.002177068	BAP1	1378	6
11	18487339	0.001818182	LDHAL6A	1375	3
5	151173783	0.001818182	G3BP1	1375	5
16	71682930	0.006163887	PHLPP2	1379	16
1	248551172	0.001812908	OR2T6	1379	4
11	100792276	0.001109467	ARHGAP42	1352	3
1	47904252	0.001456664	FOXD2	1373	4
1	100127888	0.001814224	PALMD	1378	5

5	126859203	0.001812908	PRRC1	1379	5
21	47656837	0.005438724	MCM3AP	1379	13
4	119216094	0.002539913	PRSS12	1378	4
1	154698465	0.001468429	KCNN3	1362	2
4	104003242	0.002181818	BDH2	1375	2
21	46951422	0.002192982	SLC19A1	1368	5
2	70031670	0.001450326	ANXA4	1379	4
11	68747753	0.001453488	MRGPRD	1376	4
2	47637411	0.002538071	MSH2	1379	7
1	221053557	0.00074129	HLX	1349	2
17	29314993	0.002175489	RNF135	1379	5
11	7949339	0.001812908	OR10A6	1379	5
12	7459322	0.002586844	ACSM4	1353	7
19	52468130	0.001450326	ZNF350	1379	4
18	13387749	0.001814224	LDLRAD4	1378	5
5	79351650	0.002539913	THBS4	1378	6
12	114296700	0.002541757	RBM19	1377	6
8	105509234	0.000725689	LRP12	1378	2
3	12779212	0.00109569	TMEM40	1369	2
3	195013093	0.001815541	ACAP2	1377	5
16	2140060	0.00255102	PKD1	1372	6
10	126715365	0.001452433	CTBP2	1377	4
3	129281747	0.001461988	PLXND1	1368	4
19	9800849	0.001463058	ZNF812	1367	4
11	122775021	0.001450326	C11orf63	1379	4
3	49321942	0.002904866	USP4	1377	6
14	34145432	0.001453488	NPAS3	1376	4
20	13415747	0.001087745	TASP1	1379	3
3	190573541	0.001106195	GMNC	1356	3
4	185012335	0.002902758	ENPP6	1378	8
2	233750012	0.002902758	NGEF	1378	4
6	32975250	0.001823487	HLA-DOA	1371	4
10	50946112	0.002539913	OGDHL	1378	7
19	15784514	0.003265602	CYP4F12	1378	5
7	23221713	0.002538071	NUPL2	1379	6
14	20763959	0.002180233	TTC5	1376	6
4	52894901	0.002175489	SGCB	1379	6
2	238978086	0.001110289	SCLY	1351	3
1	82434869	0.001812908	LPHN2	1379	5
6	154731545	0.003263234	CNKSR3	1379	8
7	156963049	0.001814224	UBE3C	1378	5
1	39991399	0.001120239	BMP8A	1339	2
13	60240719	0.002900653	DIAPH3	1379	8
14	94849336	0.001453488	SERPINA1	1376	4
7	2608610	0.001812908	IQCE	1379	5
6	118786608	0.001812908	CEP85L	1379	5
15	70346979	0.000744048	TLE3	1344	2
13	61041428	0.001459854	TDRD3	1370	4

1	181019267	0.000725163	MR1	1379	2
15	42714731	0.002900653	ZNF106	1379	7
2	113260754	0.001453488	TTL	1376	3
19	32844209	0.001812908	ZNF507	1379	5
20	17208033	0.001812908	PCSK2	1379	5
1	113456649	0.001812908	SLC16A1	1379	5
14	94512105	0.001457726	OTUB2	1372	4
3	114069375	0.001451379	ZBTB20	1378	4
17	9739720	0.002539913	GLP2R	1378	6
1	170135733	0.001106195	METTL11B	1356	3
12	109889500	0.001094092	KCTD10	1371	2
1	24123048	0.00181686	GALE	1376	5
11	108009695	0.001094092	ACAT1	1371	3
14	76045766	0.002539913	FLVCR2	1378	6
12	7286261	0.001815541	CLSTN3	1377	5
1	85397171	0.002175489	MCOLN2	1379	5
3	46480927	0.001812908	LTF	1379	5
1	145518179	0.001450326	PEX11B	1379	4
1	120466599	0.002538071	NOTCH2	1379	7
15	74477340	0.00146092	STRA6	1369	4
5	153381929	0.002177068	FAM114A2	1378	5
3	122944130	0.001089325	SEC22A	1377	3
7	142961237	0.001812908	GSTK1	1379	5
11	46723170	0.00182083	ZNF408	1373	5
8	126445685	0.001087745	TRIB1	1379	3
20	35668622	0.001815541	RBL1	1377	5
4	3449223	0.00147167	HGFAC	1359	4
1	29185465	0.001451379	OPRD1	1378	4
3	45030653	0.001823487	EXOSC7	1371	3
16	50100287	0.001812908	HEATR3	1379	4
3	108073980	0.001107829	HHLA2	1354	2
6	167549833	0.000725163	CCR6	1379	2
16	84158278	0.001812908	HSDL1	1379	5
16	86580222	0.000728332	MTHFSD	1373	2
6	31557681	0.001453488	NCR3	1376	4
19	53209592	0.000747384	ZNF611	1338	2
10	127727881	0.002175489	ADAM12	1379	6
2	172291657	0.001087745	DCAF17	1379	3
19	11210921	0.002175489	LDLR	1379	5
6	10874746	0.001452433	GCM2	1377	3
1	223983555	0.002178649	TP53BP2	1377	6
1	33149912	0.001812908	SYNC	1379	4
11	55321963	0.002538071	OR4C15	1379	7
10	133946863	0.001115242	JAKMIP3	1345	3
2	120005616	0.001094891	STEAP3	1370	3
6	41739217	0.000762777	FRS3	1311	1
1	92767090	0.001450326	RPAP2	1379	3
3	54952845	0.001452433	LRTM1	1377	4

5	125885909	0.002178649	ALDH7A1	1377	6
3	99567321	0.00182083	FILIP1L	1373	4
2	191381056	0.001474926	TMEM194B	1356	3
4	38879802	0.001812908	FAM114A1	1379	5
11	45880289	0.001090116	CRY2	1376	3
11	76506764	0.001464129	TSKU	1366	4
3	33863511	0.002539913	PDCD6IP	1378	7
1	3319364	0.001818182	PRDM16	1375	5
10	50854606	0.001450326	CHAT	1379	4
16	29884693	0.001818182	SEZ6L2	1375	5
2	74649471	0.001454545	WDR54	1375	4
15	67555548	0.001812908	IQCH	1379	4
22	17577976	0.003265602	IL17RA	1378	8
11	32608666	0.000728332	EIF3M	1373	2
11	125221211	0.003265602	PKNOX2	1378	7
7	99017609	0.003267974	PTCD1	1377	8
2	27852246	0.001452433	GPN1	1377	4
8	92307906	0.00181686	SLC26A7	1376	2
5	5146428	0.002177068	ADAMTS16	1378	6
18	10677751	0.002538071	PIEZO2	1379	7
1	155911589	0.001452433	RXFP4	1377	4
2	155099271	0.002175489	GALNT13	1379	5
20	32333101	0.002178649	ZNF341	1377	6
2	73467583	0.001087745	CCT7	1379	3
17	7163993	0.001815541	CLDN7	1377	5
11	124487237	0.001812908	PANX3	1379	5
13	37583857	0.001812908	SUPT20H	1379	5
2	27324209	0.002175489	CGREF1	1379	5
5	44811174	0.00181686	MRPS30	1376	5
4	187122381	0.001452433	CYP4V2	1377	4
12	14798163	0.001812908	GUCY2C	1379	5
2	234669270	0.001812908	UGT1A1	1379	5
8	81892675	0.002177068	PAG1	1378	4
16	75263713	0.002192982	BCAR1	1368	5
9	35546811	0.002538071	RUSC2	1379	5
5	93720144	0.002175489	KIAA0825	1379	6
2	242438114	0.000726216	STK25	1377	2
1	117544468	0.002538071	CD101	1379	7
16	511425	0.001453488	RAB11FIP3	1376	3
7	95039408	0.002541757	PON2	1377	4
1	26303215	0.001456664	PAFAH2	1373	4
20	47244087	0.002543605	PREX1	1376	6
15	45779736	0.001451379	SLC30A4	1378	4
2	168725589	0.001087745	B3GALT1	1379	3
19	36269210	0.001451379	ARHGAP33	1378	4
22	39222636	0.001470588	NPTXR	1360	4
1	178821833	0.001088534	ANGPTL1	1378	3
4	88732551	0.001455604	IBSP	1374	4

3	49081829	0.002177068	QRICH1	1378	6
17	43101949	0.00182083	DCAKD	1373	5
12	12274319	0.002175489	LRP6	1379	6
10	90524224	0.001107011	LIPN	1355	3
11	60264924	0.001089325	MS4A12	1377	3
2	102804348	0.001087745	IL1RL2	1379	3
3	157160179	0.002177068	PTX3	1378	5
17	65040819	0.00181686	CACNG1	1376	5
1	17660499	0.002177068	PADI4	1378	6
17	79803472	0.001452433	P4HB	1377	4
16	82069082	0.001812908	HSD17B2	1379	5
3	105389176	0.001451379	CBLB	1378	4
2	165994490	0.002539913	SCN3A	1378	5
2	232325261	0.001450326	NCL	1379	4
4	6863354	0.001814224	KIAA0232	1378	5
21	28212235	0.001450326	ADAMTS1	1379	4
1	161130555	0.00150263	USP21	1331	4
6	46129188	0.001094092	ENPP5	1371	2
3	137880775	0.001087745	DBR1	1379	3
11	34501851	0.001090909	ELF5	1375	3
9	128206867	0.002538071	MAPKAP1	1379	5
12	69965943	0.001814224	FRS2	1378	4
10	127424376	0.001812908	EDRF1	1379	5
13	31714368	0.001814224	HSPH1	1378	5
17	58232692	0.001823487	CA4	1371	4
9	132591780	0.001451379	C9orf78	1378	4
17	41957299	0.001091703	MPP2	1374	3
15	41145959	0.001456664	SPINT1	1373	4
12	6952386	0.002538071	GNB3	1379	6
5	79729973	0.002906977	ZFYVE16	1376	8
2	27821059	0.001089325	ZNF512	1377	3
6	112393170	0.001822157	TUBE1	1372	4
4	102751144	0.002539913	BANK1	1378	7
2	74041094	0.001843658	C2orf78	1356	5
13	28197025	0.001450326	POLR1D	1379	4
16	4242171	0.002175489	SRL	1379	6
11	17408904	0.001463058	KCNJ11	1367	4
4	159601626	0.001815541	ETFDH	1377	5
1	161089150	0.001814224	NIT1	1378	5
3	107776350	0.001450326	CD47	1379	4
1	211447594	0.001450326	RCOR3	1379	4
7	150931132	0.001815541	CHPF2	1377	5
1	43805100	0.001812908	MPL	1379	5
15	74467758	0.001465201	ISLR	1365	3
6	33406560	0.001094092	SYNGAP1	1371	3
14	93081825	0.001812908	RIN3	1379	5
5	147449941	0.001815541	SPINK5	1377	5
2	210896171	0.001453488	KANSL1L	1376	4

22	26860088	0.001089325	HPS4	1377	3
2	201790601	0.002180233	ORC2	1376	5
3	48419822	0.002177068	FBXW12	1378	5
1	183191295	0.002178649	LAMC2	1377	5
12	108920225	0.001087745	SART3	1379	3
17	41053039	0.001450326	G6PC	1379	4
12	21349922	0.001812908	SLCO1B1	1379	5
11	46747641	0.001102941	F2	1360	3
10	99358550	0.000726216	HOGA1	1377	2
19	38810880	0.001812908	KCNK6	1379	4
1	84867584	0.002175489	DNASE2B	1379	4
11	120690501	0.001814224	GRIK4	1378	5
2	116101472	0.001451379	DPP10	1378	4
4	77039265	0.002900653	NUP54	1379	7
17	10595249	0.00181686	SCO1	1376	2
2	113060867	0.002581121	ZC3H6	1356	6
1	1248039	0.002541757	CPSF3L	1377	7
10	127455248	0.001450326	MMP21	1379	4
1	53322789	0.002949853	ZYG11A	1356	8
4	1985196	0.001469508	NELFA	1361	4
9	133470945	0.001451379	FUBP3	1378	3
6	26273228	0.001089325	HIST1H2BI	1377	3
15	40703861	0.001814224	IVD	1378	5
3	196387340	0.001451379	NRROS	1378	4
11	88338013	0.001812908	GRM5	1379	5
17	79870362	0.000726744	SIRT7	1376	2
20	1099537	0.001814224	PSMF1	1378	5
2	27876364	0.001450326	SUPT7L	1379	4
14	94931126	0.002904866	SERPINA9	1377	8
11	58979216	0.001455604	MPEG1	1374	4
2	227872958	0.002539913	COL4A4	1378	6
1	91967341	0.001812908	CDC7	1379	5
15	56721357	0.001814224	MNS1	1378	4
17	33801952	0.002538071	SLFN12L	1379	6
9	130471845	0.001090909	C9orf117	1375	3
11	56113666	0.001450326	OR8K1	1379	4
1	196227335	0.001452433	KCNT2	1377	4
16	29810693	0.000730994	KIF22	1368	1
11	64812885	0.003654971	NAALADL1	1368	5
14	55836425	0.001815541	ATG14	1377	5
5	177649376	0.001093294	PHYKPL	1372	3
2	232457732	0.001454545	C2orf57	1375	4
18	21113361	0.002909091	NPC1	1375	8
14	20612106	0.001450326	OR4N5	1379	4
14	95030130	0.001087745	SERPINA4	1379	3
9	117104349	0.002181818	AKNA	1375	5
11	134158765	0.001477105	GLB1L3	1354	4
19	56719452	0.002194587	ZSCAN5C	1367	6

19	17212816	0.002212389	MYO9B	1356	6
11	56467871	0.001450326	OR9G1	1379	4
15	102358520	0.002564103	OR4F15	1365	5
19	19735127	0.001098097	LPAR2	1366	3
1	220928350	0.002175489	MARC2	1379	6
1	94639712	0.001450326	ARHGAP29	1379	4
2	207527747	0.003318584	DYTN	1356	7
10	288051	0.000725163	ZMYND11	1379	2
6	72945391	0.001107011	RIMS1	1355	3
21	43639407	0.00181686	ABCG1	1376	5
12	52788793	0.001819505	KRT82	1374	5
3	130649281	0.002178649	ATP2C1	1377	5
17	17046973	0.001089325	MPRIP	1377	3
13	28771364	0.001812908	PAN3	1379	5
14	31112533	0.001814224	SCFD1	1378	5
5	140625330	0.001452433	PCDHB15	1377	3
12	4609480	0.001089325	C12orf4	1377	3
15	101114197	0.001090116	LINS	1376	3
1	169761891	0.001453488	METTL18	1376	4
9	116823250	0.001815541	AMBP	1377	4
16	1961602	0.001484781	HS3ST6	1347	4
1	230371765	0.001456664	GALNT2	1373	4
12	22610050	0.001450326	C2CD5	1379	4
8	1871951	0.001454545	ARHGEF10	1375	3
7	50022985	0.001089325	ZPBP	1377	3
1	44595216	0.000729927	KLF17	1370	1
11	113607493	0.002175489	ZW10	1379	6
10	121429577	0.001812908	BAG3	1379	5
22	26068312	0.002538071	ADRBK2	1379	5
1	226346971	0.001812908	ACBD3	1379	5
9	116175792	0.001090116	C9orf43	1376	2
11	120173061	0.001450326	POU2F3	1379	4
21	44473992	0.001819505	CBS	1374	5
17	37340042	0.001096491	CACNB1	1368	3
2	190428587	0.001089325	SLC40A1	1377	3
12	49982268	0.001812908	FAM186B	1379	5
7	76054502	0.002538071	ZP3	1379	5
14	105843130	0.00073692	PACS2	1357	2
1	60476125	0.001815541	C1orf87	1377	5
9	99797010	0.001451379	CTSV	1378	4
1	45805943	0.001812908	TOE1	1379	5
3	111394241	0.001450326	PLCXD2	1379	4
1	229768095	0.002541757	URB2	1377	6
11	5221039	0.002541757	OR51V1	1377	6
14	89628910	0.002177068	FOXN3	1378	6
19	7755111	0.001812908	FCER2	1379	4
15	52901548	0.001845018	FAM214A	1355	4
12	13240140	0.001451379	GSG1	1378	4

15	65682555	0.001814224	IGDCC4	1378	5
6	25450633	0.002581121	LRRC16A	1356	7
1	161137215	0.002541757	PPOX	1377	7
9	71986516	0.001812908	FAM189A2	1379	5
18	44560308	0.001470588	TCEB3B	1360	4
6	135299863	0.002175489	HBS1L	1379	6
14	61180156	0.002900653	SIX4	1379	7
10	38407089	0.000735294	ZNF37A	1360	2
20	3842040	0.002175489	MAVS	1379	6
1	150550831	0.001812908	MCL1	1379	5
14	21485886	0.002538071	NDRG2	1379	6
3	98507306	0.001088534	ST3GAL6	1378	3
1	68896966	0.002177068	RPE65	1378	5
3	50357392	0.001090116	HYAL2	1376	3
1	16532433	0.002567865	ARHGEF19	1363	6
2	166165677	0.001451379	SCN2A	1378	4
19	9524232	0.002175489	ZNF266	1379	6
2	190660581	0.001089325	PMS1	1377	3
5	134002617	0.003991292	SEC24A	1378	10
16	57795343	0.002178649	KIFC3	1377	6
3	127816150	0.002175489	RUVBL1	1379	6
16	85133765	0.002539913	FAM92B	1378	6
20	2816900	0.001096491	PCED1A	1368	3
11	111590586	0.002900653	SIK2	1379	6
19	38895674	0.000728863	FAM98C	1372	2
3	180652978	0.001452433	FXR1	1377	3
21	44317076	0.002175489	NDUFV3	1379	4
11	64054253	0.001087745	GPR137	1379	3
15	42454645	0.002177068	VPS39	1378	5
8	11612573	0.001451379	GATA4	1378	3
11	66235633	0.001451379	PELI3	1378	4
1	40980683	0.000727273	EXO5	1375	2
11	123810829	0.001812908	OR4D5	1379	3
16	50354649	0.001457726	BRD7	1372	3
7	141255346	0.001452433	AGK	1377	4
3	45636802	0.001812908	LIMD1	1379	4
1	47650732	0.000725689	PDZK1IP1	1378	2
19	10224527	0.001474926	P2RY11	1356	3
3	40553016	0.001087745	ZNF620	1379	3
1	46156742	0.000726216	TMEM69	1377	2
5	140053903	0.001088534	HARS	1378	3
17	7324427	0.001456664	SPEM1	1373	4
5	147582682	0.002181818	SPINK6	1375	2
15	42434897	0.001454545	PLA2G4F	1375	4
9	139815576	0.001456664	TRAF2	1373	4
16	4749076	0.002547307	ANKS3	1374	4
18	47318668	0.001088534	ACAA2	1378	2
12	132325158	0.002571639	MMP17	1361	6

19	44932672	0.00182083	ZNF229	1373	5
6	170667366	0.001465201	FAM120B	1365	3
4	48487137	0.001812908	SLC10A4	1379	5
17	42284625	0.001453488	UBTF	1376	4
2	167060627	0.004424779	SCN9A	1356	12
16	55562344	0.001089325	LPCAT2	1377	3
20	1532474	0.001454545	SIRPD	1375	4
9	124521214	0.002178649	DAB2IP	1377	6
15	78917431	0.001452433	CHRNB4	1377	4
22	29668232	0.000727273	EWSR1	1375	2
3	172353812	0.002175489	NCEH1	1379	5
5	78573749	0.002545455	JMY	1375	6
9	138650344	0.00181686	KCNT1	1376	4
15	45695684	0.001452433	SPATA5L1	1377	4
6	110037724	0.004713561	FIG4	1379	12
17	38926314	0.001450326	KRT26	1379	4
16	72821244	0.011602611	ZFHX3	1379	30
3	38307511	0.002178649	SLC22A13	1377	5
20	62626444	0.001452433	PRPF6	1377	4
14	50550504	0.001474926	C14orf183	1356	4
2	171806099	0.002175489	GORASP2	1379	6
5	149907846	0.001452433	NDST1	1377	4
8	102505011	0.001450326	GRHL2	1379	4
11	1491437	0.001476015	MOB2	1355	3
6	153292360	0.001812908	FBXO5	1379	5
1	39549960	0.015591008	MACF1	1379	39
3	33576791	0.001843658	CLASP2	1356	5
12	64661070	0.001476015	C12orf56	1355	4
12	106633158	0.001453488	CKAP4	1376	4
1	158054244	0.002556611	KIRREL	1369	6
19	35649264	0.001450326	FXYD5	1379	4
18	55319898	0.001451379	ATP8B1	1378	4
17	40704980	0.001455604	HSD17B1	1374	4
3	156710913	0.002177068	LEKR1	1378	5
2	191301122	0.002175489	MFSD6	1379	5
11	31531442	0.002538071	ELP4	1379	6
1	3547592	0.001453488	WRAP73	1376	3
18	72168619	0.002181818	CNDP2	1375	5
1	116936258	0.001450326	ATP1A1	1379	3
6	117113592	0.002902758	GPRC6A	1378	7
14	94640850	0.002902758	PPP4R4	1378	8
5	41749678	0.001455604	OXCT1	1374	3
3	64132701	0.001450326	PRICKLE2	1379	4
11	34073995	0.001815541	CAPRIN1	1377	5
6	133014187	0.001815541	VNN1	1377	5
16	2203030	0.001470588	RAB26	1360	4
11	56184949	0.001089325	OR5R1	1377	3
6	161781180	0.002178649	PARK2	1377	4

18	28714069	0.002538071	DSC1	1379	6
1	207762092	0.002212389	CR1	1356	6
10	17369013	0.002178649	ST8SIA6	1377	5
12	80190607	0.00295421	PPP1R12A	1354	7
6	160221822	0.002175489	PNLDC1	1379	6
3	165503931	0.001812908	BCHE	1379	5
17	43213564	0.001091703	ACBD4	1374	3
22	37462921	0.001090116	TMPRSS6	1376	3
15	42278178	0.002581121	PLA2G4E	1356	7
1	22902848	0.002915452	EPHA8	1372	8
13	73317740	0.001088534	BORA	1378	3
11	113851954	0.002178649	HTR3A	1377	6
1	65243617	0.001450326	RAVER2	1379	4
20	18429699	0.001108647	DZANK1	1353	3
1	99753615	0.001450326	LPPR4	1379	4
20	62737241	0.000732601	NPBWR2	1365	2
1	155159843	0.001814224	MUC1	1378	4
9	117165571	0.001456664	DFNB31	1373	4
1	92428339	0.002175489	BRDT	1379	5
10	31137472	0.002900653	ZNF438	1379	6
15	42511780	0.002177068	TMEM87A	1378	6
2	219290399	0.002538071	VIL1	1379	7
22	21799455	0.00182615	HIC2	1369	5
4	187192817	0.002900653	F11	1379	8
19	58805779	0.002178649	ZNF8	1377	3
18	346831	0.001450326	COLEC12	1379	4
1	100618043	0.001090909	LRRC39	1375	3
5	10227695	0.002177068	FAM173B	1378	5
3	154055922	0.001087745	GPR149	1379	3
16	780875	0.000733138	NARFL	1364	2
11	224133	0.001822157	SIRT3	1372	5
16	55360273	0.001451379	IRX6	1378	4
12	19407983	0.001815541	PLEKHA5	1377	5
14	58030910	0.001476015	SLC35F4	1355	4
10	124797292	0.001814224	ACADSB	1378	5
4	39301745	0.002175489	RFC1	1379	6
16	50785647	0.001453488	CYLD	1376	4
18	33689668	0.002538071	SLC39A6	1379	7
2	150294230	0.001451379	LYPD6	1378	4
16	57597079	0.001089325	GPR114	1377	3
17	39881117	0.001815541	HAP1	1377	4
19	19329832	0.002538071	NCAN	1379	6
9	140005179	0.001828822	DPP7	1367	5
5	639296	0.002183406	CEP72	1374	6
9	139275214	0.002177068	SNAPC4	1378	6
12	49742876	0.001838235	DNAJC22	1360	4
1	6697369	0.002175489	DNAJC11	1379	4
15	78393314	0.001850481	SH2D7	1351	5

19	54313081	0.002539913	NLRP12	1378	7
10	96201675	0.002184996	TBC1D12	1373	5
12	10954352	0.002900653	TAS2R7	1379	4
12	88542273	0.001822157	TMTC3	1372	5
6	2671547	0.001450326	MYLK4	1379	4
5	157214801	0.002949853	CLINT1	1356	6
12	121768442	0.001451379	ANAPC5	1378	4
15	68489913	0.001450326	CALML4	1379	4
9	132576312	0.001812908	TOR1A	1379	5
1	56990105	0.001094891	PPAP2B	1370	3
21	44424516	0.001815541	PKNOX1	1377	5
19	19105221	0.002900653	SUGP2	1379	7
8	51449250	0.001815541	SNTG1	1377	5
19	54377222	0.001814224	MYADM	1378	5
17	76187109	0.001815541	AFMID	1377	5
8	131792811	0.002538071	ADCY8	1379	7
5	140530172	0.001812908	PCDHB6	1379	4
3	119327670	0.001452433	PLA1A	1377	4
1	223567413	0.002184996	C1orf65	1373	5
13	114526356	0.00182615	GAS6	1369	5
14	32560696	0.001469508	ARHGAP5	1361	4
1	45471482	0.001089325	HECTD3	1377	3
1	28071165	0.001087745	FAM76A	1379	3
2	232262488	0.001107829	B3GNT7	1354	3
16	22237155	0.002541757	EEF2K	1377	6
6	49698946	0.001450326	CRISP3	1379	4
3	49714455	0.001452433	APEH	1377	4
22	40807426	0.002177068	MKL1	1378	6
22	42473377	0.001098097	FAM109B	1366	3
15	80414049	0.001464129	ZFAND6	1366	4
17	34252574	0.001090116	RDM1	1376	3
2	96795810	0.00146092	ASTL	1369	4
4	17694956	0.003318584	FAM184B	1356	7
17	26653594	0.001450326	TMEM97	1379	4
14	64988270	0.001087745	ZBTB1	1379	3
11	19890538	0.004716981	NAV2	1378	13
10	120871404	0.000725689	FAM45A	1378	2
18	72998122	0.001454545	TSHZ1	1375	4
17	78109846	0.001453488	EIF4A3	1376	4
19	4207242	0.001476015	ANKRD24	1355	4
11	107393189	0.002538071	ALKBH8	1379	6
12	49952494	0.001815541	MCRS1	1377	5
11	64026021	0.001814224	PLCB3	1378	5
16	1129136	0.00147167	SSTR5	1359	4
2	125281983	0.001474926	CNTNAP5	1356	4
10	94834163	0.001096491	CYP26A1	1368	3
22	32099613	0.002538071	PRR14L	1379	7
11	64898493	0.001090116	SYVN1	1376	3

15	45409933	0.00182083	DUOXA1	1373	4
12	863242	0.007976795	WNK1	1379	20
16	2231851	0.001092498	CASKIN1	1373	3
6	24436935	0.002906977	GPLD1	1376	7
7	123097536	0.002175489	IQUB	1379	6
11	61643851	0.002184996	FADS3	1373	3
9	96415621	0.002543605	PHF2	1376	6
21	48064393	0.001812908	PRMT2	1379	5
16	1706017	0.001474926	CRAMP1L	1356	4
20	35242330	0.001818182	SLA2	1375	4
1	33291983	0.001452433	S100PBP	1377	4
11	114392803	0.002175489	NXPE1	1379	4
1	16730227	0.001088534	SPATA21	1378	3
10	94239162	0.002175489	IDE	1379	6
1	24175181	0.001461988	FUCA1	1368	4
22	26829889	0.001467351	ASPHD2	1363	4
2	23977600	0.002212389	ATAD2B	1356	6
4	153803906	0.001090909	ARFIP1	1375	3
12	94072587	0.00148368	CRADD	1348	4
10	78637589	0.001093294	KCNMA1	1372	3
20	44404090	0.001451379	WFDC3	1378	4
6	117638334	0.010152284	ROS1	1379	26
16	20043316	0.000730994	GPR139	1368	2
1	2443091	0.001464129	PANK4	1366	4
2	175619130	0.001092498	CHRNA1	1373	3
10	38242633	0.001087745	ZNF25	1379	3
1	29320010	0.002538071	EPB41	1379	5
1	173499097	0.001812908	SLC9C2	1379	5
19	7082926	0.000728863	ZNF557	1372	2
14	92547392	0.000726744	ATXN3	1376	2
18	22007977	0.001450326	IMPACT	1379	4
4	76523268	0.001812908	CDKL2	1379	5
11	67816374	0.001818182	TCIRG1	1375	5
10	48428811	0.001090909	GDF10	1375	3
6	116832977	0.001812908	FAM26E	1379	4
19	18994959	0.002269289	CERS1	1322	1
1	45810801	0.002177068	TESK2	1378	6
1	193038227	0.001452433	TROVE2	1377	4
16	84684487	0.001815541	KLHL36	1377	5
10	102053096	0.001812908	PKD2L1	1379	5
12	98925530	0.002180233	TMPO	1376	5
2	26410564	0.001855976	GAREML	1347	5
2	234580747	0.001812908	UGT1A9	1379	5
5	74641458	0.001450326	HMGCR	1379	4
10	91177123	0.001812908	IFIT5	1379	5
16	68011681	0.001474926	DPEP3	1356	4
17	54534671	0.002177068	ANKFN1	1378	4
9	131185470	0.002545455	CERCAM	1375	7

12	108082416	0.002175489	PWP1	1379	6
19	55602914	0.001102131	PPP1R12C	1361	3
9	99106236	0.00181686	SLC35D2	1376	2
11	82643383	0.001453488	C11orf82	1376	4
1	897341	0.001814224	KLHL17	1378	5
6	43612881	0.001465201	RSPH9	1365	3
3	73433552	0.001096491	PDZRN3	1368	3
11	66999307	0.000738552	KDM2A	1354	2
1	27121087	0.001088534	PIGV	1378	3
11	62342377	0.001451379	MIR3654	1378	4
11	5776054	0.001092498	OR52N4	1373	3
1	109838909	0.000735835	MYBPHL	1359	2
16	67919928	0.001103753	NRN1L	1359	3
3	134322897	0.00148368	KY	1348	4
3	32932704	0.001453488	TRIM71	1376	4
12	123214039	0.002183406	HCAR1	1374	5
2	166850838	0.002175489	SCN1A	1379	6
19	47572412	0.002539913	ZC3H4	1378	6
1	11718887	0.001452433	FBXO44	1377	4
3	169557921	0.002178649	LRRC31	1377	6
11	8008879	0.001818182	EIF3F	1375	5
12	32260351	0.001814224	BICD1	1378	5
7	35674979	0.000727802	HERPUD2	1374	2
15	41067752	0.001087745	DNAJC17	1379	3
19	282175	0.001824818	PPAP2C	1370	5
11	64064979	0.001452433	KCNK4	1377	4
2	62728361	0.001088534	TMEM17	1378	3
9	7798577	0.001457726	TMEM261	1372	4
14	21854293	0.002212389	CHD8	1356	6
12	10772832	0.002538071	STYK1	1379	7
16	1859791	0.00109569	HAGH	1369	3
1	52902493	0.001812908	ZCCHC11	1379	5
15	28231741	0.001089325	OCA2	1377	3
11	64882224	0.000731529	TM7SF2	1367	2
14	94519451	0.002175489	DDX24	1379	6
1	180235687	0.00181686	LHX4	1376	3
16	73164975	0.001476015	C16orf47	1355	3
18	67992424	0.001457726	SOCS6	1372	4
13	103459805	0.002175489	BIVM	1379	6
6	38545482	0.002539913	BTBD9	1378	6
17	19559749	0.001818182	ALDH3A2	1375	4
1	15764963	0.001088534	CTRC	1378	3
4	74447935	0.000732064	RASSF6	1366	2
1	16064446	0.001824818	SLC25A34	1370	5
1	71331475	0.001091703	PTGER3	1374	3
8	42196581	0.001090909	POLB	1375	3
2	187615861	0.001090116	FAM171B	1376	3
4	178354487	0.002539913	AGA	1378	5

3	12950811	0.00181686	IQSEC1	1376	5
14	76429728	0.001814224	TGFB3	1378	4
21	45924744	0.001814224	TSPEAR	1378	5
15	34159708	0.001089325	AVEN	1377	3
17	8785133	0.001457726	PIK3R5	1372	4
19	48977182	0.001091703	CYTH2	1374	3
4	3768845	0.001857355	ADRA2C	1346	4
4	110384452	0.002538071	SEC24B	1379	6
12	11149690	0.000725163	TAS2R20	1379	2
19	7606246	0.002178649	PNPLA6	1377	6
19	19369436	0.001090116	HAPLN4	1376	3
19	11447950	0.00073046	RAB3D	1369	2
17	3419802	0.001087745	TRPV3	1379	3
2	29354222	0.001451379	CLIP4	1378	4
1	46654504	0.001814224	POMGNT1	1378	5
5	9052084	0.00181686	SEMA5A	1376	5
11	66204585	0.000726216	MRPL11	1377	2
9	71687528	0.001088534	FXN	1378	3
9	34371740	0.001113586	KIAA1161	1347	3
4	80327719	0.001815541	GK2	1377	5
3	17255772	0.002900653	TBC1D5	1379	7
1	185878634	0.015591008	HMCN1	1379	42
12	51493515	0.000726744	TFCP2	1376	2
11	111839347	0.001113586	DIXDC1	1347	3
3	137786420	0.001093294	DZIP1L	1372	3
4	104030164	0.006526468	CENPE	1379	18
21	45472314	0.002538071	TRAPPC10	1379	7
11	128354750	0.001819505	ETS1	1374	4
9	139299089	0.002194587	SDCCAG3	1367	2
8	122641133	0.001098901	HAS2	1365	3
22	28146952	0.002539913	MN1	1378	4
19	17361089	0.001455604	USHBP1	1374	4
15	74631052	0.002178649	CYP11A1	1377	4
21	42811696	0.001090909	MX1	1375	3
16	67876894	0.00146092	THAP11	1369	3
1	1563718	0.001131222	MIB2	1326	2
12	2602356	0.001845018	CACNA1C	1355	5
15	59963414	0.001106195	BNIP2	1356	3
3	39227276	0.002900653	XIRP1	1379	8
7	124464071	0.002538071	POT1	1379	7
1	110946559	0.001451379	LAMTOR5	1378	4
2	48678216	0.002902758	PPP1R21	1378	8
19	13002686	0.001088534	GCDH	1378	3
12	28459696	0.002181818	CCDC91	1375	4
3	158531760	0.001814224	MFSD1	1378	5
18	76753405	0.002902758	SALL3	1378	8
16	89960162	0.001453488	TCF25	1376	4
6	26107874	0.001087745	HIST1H1T	1379	3

20	43926668	0.001102131	MATN4	1361	3
20	60733874	0.001099707	SS18L1	1364	3
8	22473256	0.001087745	CCAR2	1379	3
22	20891404	0.002177068	MED15	1378	6
12	56231370	0.001814224	MMP19	1378	5
16	22111766	0.002581121	VWA3A	1356	6
19	52568696	0.001453488	ZNF841	1376	4
9	74526676	0.001451379	C9orf85	1378	3
3	172162975	0.001453488	GHSR	1376	4
17	80356186	0.001094092	OGFOD3	1371	3
13	88328056	0.002175489	SLITRK5	1379	6
14	39870506	0.001451379	FBXO33	1378	4
1	27239911	0.001458789	NR0B2	1371	3
16	67290984	0.001453488	SLC9A5	1376	4
2	113414776	0.002175489	SLC20A1	1379	6
14	24839165	0.002539913	NFATC4	1378	6
19	17394946	0.002218935	ANKLE1	1352	6
11	104971318	0.001087745	CARD17	1379	3
8	49643168	0.001456664	EFCAB1	1373	3
3	112727163	0.001450326	C3orf17	1379	4
17	27963223	0.002538071	SSH2	1379	6
5	11346508	0.002180233	CTNND2	1376	5
2	54080314	0.001481481	GPR75	1350	4
12	121175688	0.001103753	ACADS	1359	3
20	33874658	0.001834189	FAM83C	1363	5
1	168250392	0.001089325	TBX19	1377	3
19	57908465	0.001812908	ZNF548	1379	5
4	15780087	0.001089325	CD38	1377	3
6	44222839	0.002178649	SLC35B2	1377	6
22	38229747	0.000730994	ANKRD54	1368	1
17	76991292	0.001094891	CANT1	1370	3
1	117695823	0.001090116	VTCN1	1376	3
1	154307062	0.002175489	ATP8B2	1379	6
3	110830946	0.001092498	PVRL3	1373	3
7	53103445	0.001461988	POM121L12	1368	4
21	44106372	0.002177068	PDE9A	1378	6
15	44176982	0.002178649	FRMD5	1377	3
8	22478982	0.001843658	BIN3	1356	5
10	28345483	0.002175489	MPP7	1379	6
17	32906022	0.001113586	C17orf102	1347	3
20	47679789	0.002175489	CSE1L	1379	6
17	72842243	0.001822157	GRIN2C	1372	5
10	135193773	0.002177068	PAOX	1378	5
7	150217121	0.001451379	GIMAP7	1378	3
5	162900194	0.002904866	HMMR	1377	7
12	121660795	0.001450326	P2RX4	1379	4
16	57717975	0.001088534	GPR97	1378	3
9	131077854	0.001089325	TRUB2	1377	3

5	140579567	0.002538071	PCDHB11	1379	7
16	1498399	0.001098097	CLCN7	1366	3
12	53004439	0.001090909	KRT73	1375	3
7	142640099	0.002900653	KEL	1379	8
19	9267320	0.001450326	ZNF317	1379	4
15	40675162	0.001453488	KNSTRN	1376	4
11	5254282	0.000725163	HBD	1379	2
16	66803980	0.001107829	CCDC79	1354	3
2	70143316	0.001452433	MXD1	1377	4
10	114136163	0.002177068	ACSL5	1378	5
19	2096992	0.001838235	IZUMO4	1360	4
8	120581515	0.001451379	ENPP2	1378	4
17	61910523	0.002584934	SMARCD2	1354	7
12	65445229	0.001454545	WIF1	1375	4
22	18070004	0.001093294	SLC25A18	1372	3
9	96214630	0.001815541	FAM120A	1377	4
22	25577753	0.001120239	KIAA1671	1339	3
5	180472539	0.001450326	BTNL9	1379	3
5	177020673	0.001455604	TMED9	1374	4
7	148457479	0.000726216	CUL1	1377	2
1	53682485	0.001089325	C1orf123	1377	3
1	183495823	0.002175489	SMG7	1379	6
5	864657	0.002191381	BRD9	1369	4
11	8435102	0.001450326	STK33	1379	4
12	12629861	0.001450326	DUSP16	1379	4
15	74911599	0.001454545	CLK3	1375	4
11	45970497	0.001094891	PHF21A	1370	3
16	1825105	0.002189781	EME2	1370	6
16	30122747	0.002188184	GDPD3	1371	5
9	103348369	0.000727802	MURC	1374	2
1	171605085	0.001450326	MYOC	1379	4
10	26505776	0.002177068	GAD2	1378	5
3	52387411	0.002949853	DNAH1	1356	8
8	63502314	0.001106195	NKAIN3	1356	3
8	65517250	0.001451379	CYP7B1	1378	4
4	68780340	0.002175489	TMPRSS11A	1379	5
11	55798099	0.001450326	OR5AS1	1379	4
2	24300551	0.001087745	TP53I3	1379	3
19	49671333	0.002902758	TRPM4	1378	8
11	65423363	0.001814224	RELA	1378	4
1	224377317	0.001450326	DEGS1	1379	4
20	43541447	0.001815541	PABPC1L	1377	4
1	32098170	0.00182615	PEF1	1369	4
7	44664022	0.001812908	OGDH	1379	5
22	30766579	0.001457726	CCDC157	1372	4
14	24108117	0.002538071	DHRS2	1379	6
17	27207585	0.002538071	FLOT2	1379	6
18	6824856	0.001087745	ARHGAP28	1379	3

13	52707855	0.001474926	NEK3	1356	4
2	234545175	0.001450326	UGT1A10	1379	4
19	14744108	0.00073046	EMR3	1369	2
1	68944936	0.001089325	DEPDC1	1377	3
11	34988300	0.001814224	PDHX	1378	5
2	88888359	0.000725163	EIF2AK3	1379	2
2	11932081	0.001814224	LPIN1	1378	4
12	58177022	0.001111935	TSFM	1349	3
12	26217496	0.002180233	RASSF8	1376	6
8	57878830	0.000726216	IMPAD1	1377	2
19	36673931	0.001088534	ZNF565	1378	3
6	131894464	0.001451379	ARG1	1378	3
2	158390485	0.001812908	ACVR1C	1379	5
2	200797878	0.001451379	TYW5	1378	3
13	61987387	0.001090116	PCDH20	1376	3
4	110610635	0.002538071	CASP6	1379	6
7	65705719	0.001089325	TPST1	1377	3
5	140719233	0.001831502	PCDHGA2	1365	5
14	102698079	0.001814224	MOK	1378	5
6	89554163	0.001451379	RNGTT	1378	4
7	99077399	0.001087745	ZNF789	1379	3
10	91098695	0.002538071	IFIT3	1379	5
12	54686178	0.001454545	NFE2	1375	4
6	43100287	0.002543605	PTK7	1376	5
17	26912377	0.002175489	SPAG5	1379	5
11	66133437	0.000730994	SLC29A2	1368	2
2	241969926	0.001106195	SNED1	1356	3
17	6014183	0.002181818	WSCD1	1375	6
2	173659787	0.002177068	RAPGEF4	1378	4
2	27600645	0.001091703	ZNF513	1374	2
6	43418315	0.001832845	DLK2	1364	4
5	102887983	0.001088534	NUDT12	1378	3
20	50407055	0.003625816	SALL4	1379	8
6	41533651	0.00110538	FOXP4	1357	3
9	131022929	0.000725163	GOLGA2	1379	2
19	39907531	0.002538071	PLEKHG2	1379	7
8	38091971	0.001088534	DDHD2	1378	3
2	40387917	0.001812908	SLC8A1	1379	5
11	123597390	0.001450326	ZNF202	1379	4
2	219129780	0.001818182	AAMP	1375	5
1	180885424	0.002178649	KIAA1614	1377	6
1	22030057	0.001452433	USP48	1377	4
15	22955206	0.002178649	CYFIP1	1377	6
20	62572162	0.001102941	UCKL1	1360	3
16	75485558	0.001469508	TMEM170A	1361	2
16	10729736	0.002539913	TEKT5	1378	7
12	133272591	0.001094891	PXMP2	1370	3
1	87380819	0.001450326	HS2ST1	1379	4

5	64466476	0.001452433	ADAMTS6	1377	3
1	57157114	0.001450326	PRKAA2	1379	3
19	46056999	0.001116902	OPA3	1343	3
16	58743440	0.001450326	GOT2	1379	4
22	30974939	0.001094891	PES1	1370	2
18	47800145	0.001452433	MBD1	1377	4
14	58674725	0.000728863	ACTR10	1372	2
11	67831994	0.001452433	CHKA	1377	4
9	130221306	0.001087745	LRSAM1	1379	3
10	15561342	0.001812908	ITGA8	1379	5
2	220102592	0.001812908	GLB1L	1379	5
11	68678941	0.001465201	IGHMBP2	1365	4
5	108679995	0.002900653	PJA2	1379	8
3	99513128	0.001824818	COL8A1	1370	4
1	159163662	0.001814224	CADM3	1378	4
4	37591937	0.001454545	C4orf19	1375	4
10	123274786	0.002175489	FGFR2	1379	5
4	184366180	0.002177068	CDKN2AIP	1378	6
17	18022154	0.009789703	MYO15A	1379	25
12	111894002	0.002538071	ATXN2	1379	7
5	60194125	0.001451379	ERCC8	1378	4
14	64416562	0.01595359	SYNE2	1379	43
2	220496776	0.001812908	SLC4A3	1379	5
11	47199977	0.001823487	PACSIN3	1371	5
14	60212675	0.001451379	RTN1	1378	4
11	397546	0.001453488	PKP3	1376	4
22	19346998	0.000732064	HIRA	1366	2
14	81737093	0.002900653	STON2	1379	7
8	87878770	0.001477105	CNBD1	1354	4
16	56531666	0.002175489	BBS2	1379	6
15	42126945	0.001814224	JMJD7	1378	5
6	159316263	0.001847746	C6orf99	1353	5
6	116938158	0.002900653	RSPH4A	1379	8
17	62248472	0.001812908	TEX2	1379	5
7	38781595	0.001088534	VPS41	1378	3
16	30409271	0.001454545	ZNF48	1375	4
2	234749274	0.001451379	HJURP	1378	4
2	183993015	0.001088534	NUP35	1378	3
17	16843040	0.001092498	TNFRSF13B	1373	3
13	73334762	0.002177068	DIS3	1378	6
6	71569906	0.000761615	SMAP1	1313	2
3	57311812	0.001812908	ASB14	1379	5
1	153721205	0.001451379	INTS3	1378	4
1	183909884	0.001451379	COLGALT2	1378	4
21	47535789	0.002552881	COL6A2	1371	6
1	228873467	0.001088534	RHOU	1378	3
12	80645499	0.003323486	OTOGL	1354	4
22	42457044	0.001452433	NAGA	1377	4

12	56742728	0.002175489	STAT2	1379	5
7	100174710	0.001830161	LRCH4	1366	4
10	75510997	0.002902758	SEC24C	1378	7
5	138857920	0.002188184	TMEM173	1371	4
16	19741776	0.001093294	IQCK	1372	3
16	84514245	0.002902758	TLDC1	1378	7
14	23236530	0.001450326	OXA1L	1379	4
12	96397646	0.001455604	LTA4H	1374	3
17	46607097	0.001815541	HOXB1	1377	5
1	110254957	0.000728863	GSTM5	1372	2
6	47646866	0.001452433	GPR111	1377	4
3	128200113	0.001090116	GATA2	1376	3
19	11312615	0.001111111	DOCK6	1350	3
17	42808373	0.001088534	DBF4B	1378	3
20	33703646	0.001088534	EDEM2	1378	3
1	91403071	0.002541757	ZNF644	1377	7
16	84005765	0.002543605	NECAB2	1376	7
19	54610385	0.001090909	TFPT	1375	3
6	36887400	0.000726744	C6orf89	1376	2
8	144810228	0.001470588	FAM83H	1360	4
12	21015707	0.001450326	SLCO1B3	1379	4
11	64374714	0.002181818	NRXN2	1375	6
21	39671753	0.001092498	KCNJ15	1373	2
7	100032979	0.00146092	PPP1R35	1369	4
1	54337043	0.002175489	YIPF1	1379	4
9	134400513	0.00182083	UCK1	1373	4
14	23826538	0.001824818	EFS	1370	4
10	32101709	0.001814224	ARHGAP12	1378	4
19	830802	0.001111111	AZU1	1350	2
15	27572008	0.002212389	GABRG3	1356	6
12	130898719	0.001814224	RIMBP2	1378	5
12	52946734	0.001097293	KRT71	1367	3
2	44429040	0.002539913	PPM1B	1378	4
16	20824518	0.001814224	AC004381.6	1378	5
6	64394228	0.001089325	PHF3	1377	2
9	97062480	0.001450326	ZNF169	1379	4
12	4771741	0.001089325	NDUFA9	1377	3
20	1187538	0.001129518	C20orf202	1328	2
2	220159768	0.002180233	PTPRN	1376	6
16	67862432	0.00146092	CENPT	1369	4
3	52469789	0.001096491	SEMA3G	1368	3
1	212502629	0.001088534	PPP2R5A	1378	2
19	51483558	0.000733138	KLK7	1364	2
1	154192371	0.000727802	C1orf43	1374	1
1	110168021	0.000735294	AMPD2	1360	1
1	111717535	0.001088534	CEPT1	1378	3
17	45913099	0.001094092	LRRC46	1371	3
7	99160048	0.001812908	ZNF655	1379	4

20	6068448	0.001812908	FERMT1	1379	5
2	86678278	0.001814224	KDM3A	1378	5
6	102124597	0.001812908	GRIK2	1379	5
4	100130081	0.000725163	ADH6	1379	2
7	143701258	0.001450326	OR6B1	1379	3
2	120831684	0.001450326	EPB41L5	1379	4
17	56770093	0.001451379	RAD51C	1378	3
18	59854826	0.002900653	KIAA1468	1379	8
11	58125822	0.002175489	OR5B17	1379	5
17	4791012	0.001845018	MINK1	1355	5
15	78466795	0.001087745	ACSBG1	1379	3
7	137567203	0.001452433	CREB3L2	1377	4
8	119938771	0.000726744	TNFRSF11B	1376	2
15	60643998	0.001454545	ANXA2	1375	4
1	240371959	0.001088534	FMN2	1378	3
12	102107943	0.001451379	CHPT1	1378	3
16	19310112	0.001843658	CLEC19A	1356	3
18	43204742	0.002538071	SLC14A2	1379	7
9	139103298	0.000728863	QSOX2	1372	2
1	155104000	0.001102941	EFNA1	1360	2
11	94861892	0.001096491	ENDOD1	1368	3
1	33330273	0.001098097	FNDC5	1366	3
16	68308632	0.002175489	SLC7A6	1379	5
18	66346743	0.001088534	TMX3	1378	3
20	2376047	0.001814224	TGM6	1378	5
22	31090244	0.001818182	OSBP2	1375	5
2	178494173	0.003988397	PDE11A	1379	8
3	169846881	0.001107829	PHC3	1354	3
7	127235632	0.002538071	FSCN3	1379	4
11	111796412	0.001098097	C11orf52	1366	2
9	136208471	0.001093294	MED22	1372	3
6	37284564	0.001452433	TBC1D22B	1377	2
14	23847580	0.001087745	CMTM5	1379	3
22	21084182	0.002180233	PI4KA	1376	6
22	41615526	0.002177068	L3MBTL2	1378	6
11	108546383	0.002175489	DDX10	1379	6
16	29791524	0.001843658	ZG16	1356	4
21	43413664	0.001098097	ZBTB21	1366	3
18	13826140	0.001450326	MC5R	1379	4
16	70398519	0.001456664	DDX19A	1373	3
1	38330011	0.003628447	INPP5B	1378	10
3	124485088	0.002175489	ITGB5	1379	6
13	113795320	0.000736377	F10	1358	2
11	102221343	0.001452433	BIRC2	1377	4
5	159996579	0.00181686	ATP10B	1376	5
17	39137083	0.001812908	KRT40	1379	5
2	225338987	0.001087745	CUL3	1379	3
3	88199281	0.001088534	C3orf38	1378	3

20	62729510	0.001488095	OPRL1	1344	4
16	61689463	0.001812908	CDH8	1379	5
9	115336380	0.001812908	KIAA1958	1379	5
17	66033286	0.001812908	KPNA2	1379	5
19	4679849	0.00074184	DPP9	1348	2
11	34184153	0.000729395	ABTB2	1371	2
8	86019547	0.001815541	LRRCC1	1377	5
1	28764916	0.001450326	PHACTR4	1379	4
16	81385231	0.001812908	GAN	1379	5
6	107019895	0.002175489	RTN4IP1	1379	5
4	39082790	0.00181686	KLHL5	1376	5
3	197238856	0.001091703	BDH1	1374	3
3	40429567	0.002539913	ENTPD3	1378	6
1	70618123	0.001090909	LRRC40	1375	3
12	51457660	0.001450326	CSRNP2	1379	4
19	45815086	0.001819505	CKM	1374	5
5	170224528	0.001087745	GABRP	1379	3
2	101624405	0.001109467	TBC1D8	1352	3
17	45885931	0.002178649	OSBPL7	1377	6
9	137803054	0.001090909	FCN1	1375	3
3	100447682	0.001088534	TFG	1378	3
6	43008674	0.002177068	CUL7	1378	6
11	62414566	0.001493652	INTS5	1339	4
15	49627653	0.001451379	FAM227B	1378	4
14	20482826	0.001087745	OR4K14	1379	3
11	73662151	0.001832845	DNAJB13	1364	4
9	98669381	0.001092498	ERCC6L2	1373	3
1	150482407	0.001089325	ECM1	1377	3
6	31584240	0.000725163	AIF1	1379	2
22	32811970	0.00181686	BPIFC	1376	5
19	577959	0.001102941	BSG	1360	3
2	75899081	0.002177068	GCFC2	1378	5
19	15582702	0.001100514	PGLYRP2	1363	3
13	38211054	0.002175489	TRPC4	1379	6
7	77522935	0.001845018	PHTF2	1355	5
19	8430906	0.001094891	ANGPTL4	1370	3
3	179537694	0.001087745	PEX5L	1379	3
5	140214104	0.001451379	PCDHA7	1378	4
16	57546661	0.001094092	CCDC102A	1371	3
22	24204330	0.001812908	SLC2A11	1379	5
7	7277912	0.001089325	C1GALT1	1377	3
10	115515043	0.001812908	PLEKHS1	1379	5
22	36960444	0.001097293	CACNG2	1367	3
12	113424892	0.001087745	OAS2	1379	3
12	49065605	0.001106195	KANSL2	1356	3
12	53818090	0.002175489	AMHR2	1379	6
19	41942318	0.001812908	ATP5SL	1379	3
16	774356	0.00181686	CCDC78	1376	4

11	6417367	0.002543605	APBB1	1376	6
6	90660190	0.002177068	BACH2	1378	6
6	35755675	0.001088534	CLPSL1	1378	2
4	25392533	0.002539913	ANAPC4	1378	7
7	150269217	0.001452433	GIMAP4	1377	4
3	179399683	0.002175489	USP13	1379	6
11	104871011	0.002175489	CASP5	1379	4
1	67558803	0.001450326	C1orf141	1379	4
19	42728889	0.001815541	ZNF526	1377	5
11	64956173	0.000740192	CAPN1	1351	2
1	24976537	0.001814224	SRRM1	1378	5
8	10387170	0.001088534	PRSS55	1378	3
19	6731272	0.001454545	GPR108	1375	4
1	109824345	0.000734214	PSRC1	1362	2
17	41338360	0.001846381	NBR1	1354	3
6	46675821	0.001087745	PLA2G7	1379	3
8	97620572	0.001089325	SDC2	1377	2
11	85342824	0.001818182	TMEM126B	1375	4
8	125988958	0.001452433	ZNF572	1377	4
1	35453091	0.001812908	ZMYM6	1379	5
17	36358966	0.001478197	RP11-1407O15.2	1353	1
4	100336735	0.003988397	ADH7	1379	9
18	30517980	0.002900653	CCDC178	1379	7
6	99848432	0.002900653	PNISR	1379	7
19	58437631	0.002541757	ZNF418	1377	6
11	5410674	0.002214022	OR51M1	1355	5
19	56735148	0.000732601	ZSCAN5A	1365	2
2	149511608	0.001843658	EPC2	1356	5
1	114523212	0.001088534	OLFML3	1378	3
1	101188574	0.001451379	VCAM1	1378	4
2	20113906	0.002900653	WDR35	1379	6
19	8651584	0.001452433	ADAMTS10	1377	4
2	218999801	0.000725163	CXCR2	1379	2
13	52960193	0.001818182	THSD1	1375	4
1	206650114	0.001812908	IKBKE	1379	5
19	58966557	0.001098097	ZNF324B	1366	3
4	159747177	0.003318584	FNIP2	1356	8
20	52773965	0.001089325	CYP24A1	1377	3
17	70644967	0.001091703	SLC39A11	1374	3
17	35454029	0.002538071	ACACA	1379	7
19	17678291	0.002178649	COLGALT1	1377	6
14	57947465	0.000725163	C14orf105	1379	2
7	129815417	0.001107011	TMEM209	1355	3
19	39359991	0.002177068	RINL	1378	6
1	109538237	0.001814224	WDR47	1378	5
20	9538376	0.001814224	PAK7	1378	4
6	111583553	0.001450326	KIAA1919	1379	4
3	195594090	0.001815541	TNK2	1377	5

18	52921847	0.001088534	TCF4	1378	3
3	13525012	0.001090116	HDAC11	1376	3
16	31193736	0.001089325	FUS	1377	3
21	35468614	0.001088534	SLC5A3	1378	3
1	162536012	0.001090116	UAP1	1376	3
16	84227705	0.00182083	ADAD2	1373	5
6	99819318	0.001450326	COQ3	1379	3
7	105732271	0.001090116	SYPL1	1376	3
20	44574375	0.000728332	PCIF1	1373	2
1	51822382	0.002900653	EPS15	1379	8
1	197586832	0.001455604	DENND1B	1374	4
11	2975838	0.001453488	NAP1L4	1376	3
16	70731048	0.001818182	VAC14	1375	5
3	194118220	0.00222387	GP5	1349	5
7	150027776	0.001819505	ZBED6CL	1374	5
3	8932076	0.001087745	RAD18	1379	3
7	90006887	0.001455604	GTPBP10	1374	4
3	52558661	0.001812908	NT5DC2	1379	4
18	6947249	0.004713561	LAMA1	1379	13
10	91192906	0.003625816	SLC16A12	1379	6
19	47177928	0.002549162	PRKD2	1373	6
4	40752736	0.001087745	NSUN7	1379	3
7	137128846	0.002175489	DGKI	1379	5
12	124171434	0.001090116	TCTN2	1376	3
2	197948135	0.001087745	ANKRD44	1379	3
11	123848079	0.001089325	OR10S1	1377	3
7	107389445	0.001812908	CBLL1	1379	4
16	90038104	0.001478197	CENPBD1	1353	4
11	71804641	0.002900653	LRTOMT	1379	8
14	74516793	0.001089325	CCDC176	1377	3
3	123695781	0.000729395	ROPN1	1371	2
5	72419240	0.002175489	TMEM171	1379	5
20	13769261	0.002177068	NDUFAF5	1378	6
1	172414294	0.000726216	C1orf105	1377	2
5	38481974	0.002538071	LIFR	1379	7
12	58157423	0.00181686	CYP27B1	1376	4
17	5253893	0.001814224	RABEP1	1378	5
5	96506931	0.001814224	RIOK2	1378	5
12	49933269	0.001473839	KCNH3	1357	3
7	151046228	0.002214022	NUB1	1355	3
12	104335420	0.001088534	HSP90B1	1378	3
1	26570757	0.001815541	CEP85	1377	5
19	21326379	0.001089325	ZNF431	1377	3
21	45706561	0.001090909	AIRE	1375	3
6	105729704	0.001089325	PREP	1377	3
5	180166673	0.001454545	OR2Y1	1375	4
1	76254957	0.001087745	RABGGTB	1379	3
15	41862478	0.001090116	TYRO3	1376	3

12	55758941	0.001450326	OR6C75	1379	4
5	159545945	0.001130369	PWWP2A	1327	3
14	75537281	0.001091703	ZC2HC1C	1374	3
7	27148070	0.000728332	HOXA3	1373	2
6	41658447	0.001109467	TFEB	1352	3
13	94482686	0.001088534	GPC6	1378	3
1	109241281	0.001452433	PRPF38B	1377	4
5	122718684	0.001452433	CEP120	1377	4
11	116629100	0.001088534	BUD13	1378	3
3	169637370	0.001814224	SAMD7	1378	5
11	563192	0.000748503	RASSF7	1336	2
8	121463534	0.002175489	MTBP	1379	6
10	99219918	0.00148258	MMS19	1349	4
1	243419516	0.001818182	SDCCAG8	1375	5
13	21557569	0.001812908	LATS2	1379	5
15	59063880	0.002902758	FAM63B	1378	8
19	45176068	0.001451379	CEACAM19	1378	4
2	53921080	0.002177068	GPR75-ASB3	1378	5
11	75137660	0.000740741	KLHL35	1350	2
19	50208357	0.001455604	CPT1C	1374	4
15	49182987	0.001088534	SHC4	1378	3
3	182740231	0.000725689	MCCC1	1378	2
18	61647042	0.001088534	SERPINB8	1378	3
11	58317299	0.000725689	LPXN	1378	2
11	7110409	0.001834189	RBMXL2	1363	5
21	34117177	0.001087745	PAXBP1	1379	3
9	107331559	0.002539913	OR13C8	1378	4
21	15882729	0.001087745	SAMSN1	1379	3
9	37126411	0.001812908	ZCCHC7	1379	5
4	178257329	0.002180233	NEIL3	1376	6
2	128707796	0.002538071	SAP130	1379	6
11	64507116	0.001455604	RASGRP2	1374	4
13	49580385	0.002175489	FNDC3A	1379	6
14	68292183	0.001092498	RAD51B	1373	3
6	144507813	0.001089325	STX11	1377	3
6	13228066	0.000738552	PHACTR1	1354	2
8	6599231	0.001090909	AGPAT5	1375	3
17	40734160	0.000732064	FAM134C	1366	2
1	11008091	0.001453488	C1orf127	1376	4
1	152276813	0.006526468	FLG	1379	17
1	109477326	0.001814224	CLCC1	1378	4
7	113518932	0.001812908	PPP1R3A	1379	5
11	62520016	0.001456664	ZBTB3	1373	4
4	159567948	0.001450326	RXFP1	1379	3
10	63173216	0.001450326	TMEM26	1379	3
11	66366586	0.001450326	CCS	1379	4
19	36207113	0.001102941	ZBTB32	1360	3
2	85066353	0.000737463	TRABD2A	1356	2

15	78885530	0.003265602	CHRNA3	1378	5
22	29727805	0.001466276	AP1B1	1364	4
14	47351384	0.002175489	MDGA2	1379	6
7	5396684	0.001843658	TNRC18	1356	5
22	47095217	0.001094891	CERK	1370	3
1	154917523	0.002541757	PBXIP1	1377	7
11	124493075	0.000737463	TBRG1	1356	2
1	244574652	0.001090116	ADSS	1376	3
7	23724201	0.001814224	FAM221A	1378	5
6	26225485	0.001450326	HIST1H3E	1379	4
4	83860838	0.000732601	LIN54	1365	2
18	48190635	0.002541757	MAPK4	1377	7
3	151055831	0.001088534	P2RY12	1378	3
13	113883796	0.001093294	CUL4A	1372	3
1	114442688	0.001453488	AP4B1	1376	3
17	40815025	0.001088534	TUBG2	1378	3
3	122133712	0.002189781	WDR5B	1370	5
19	37853215	0.001812908	HKR1	1379	5
17	30502376	0.001451379	RHOT1	1378	4
22	38318049	0.001453488	MICALL1	1376	4
1	209788678	0.002180233	LAMB3	1376	5
12	129278899	0.001088534	SLC15A4	1378	3
17	63010636	0.001451379	GNA13	1378	4
11	125763831	0.002175489	PUS3	1379	6
10	125514262	0.001815541	CPXM2	1377	4
7	73790458	0.001456664	CLIP2	1373	3
13	53624163	0.001814224	OLFM4	1378	4
17	30202270	0.000725163	UTP6	1379	2
3	151046045	0.001089325	P2RY13	1377	3
3	48664075	0.002177068	SLC26A6	1378	6
16	70497175	0.002181818	FUK	1375	6
9	137774396	0.00109569	FCN2	1369	3
11	56057844	0.000731529	OR8H1	1367	2
9	71080056	0.002177068	PGM5	1378	6
8	143562701	0.001847746	BAI1	1353	5
14	38060587	0.002180233	FOXA1	1376	5
2	190617439	0.001474926	OSGEPL1	1356	4
2	73868098	0.002175489	NAT8	1379	4
1	165697321	0.001091703	TMCO1	1374	2
4	86643106	0.002177068	ARHGAP24	1378	6
10	80961400	0.002900653	ZMIZ1	1379	7
19	12256225	0.001455604	ZNF625	1374	4
22	50956050	0.001089325	NCAPH2	1377	3
20	18449638	0.001089325	POLR3F	1377	3
19	44223480	0.001132075	IRGC	1325	2
10	74885001	0.001090909	NUDT13	1375	3
15	63901306	0.009587021	HERC1	1356	25
6	28963112	0.001087745	ZNF311	1379	3

14	104457511	0.003318584	TDRD9	1356	8
16	304561	0.001452433	ITFG3	1377	4
15	74742381	0.000729395	UBL7	1371	2
11	74907638	0.001089325	SLCO2B1	1377	3
12	82792593	0.001094891	METTL25	1370	3
19	49619646	0.000737463	LIN7B	1356	2
22	30374434	0.002177068	MTMR3	1378	6
8	75227210	0.001087745	JPH1	1379	3
9	101765859	0.001814224	COL15A1	1378	4
5	128324316	0.001814224	SLC27A6	1378	4
8	101149881	0.000725689	FBXO43	1378	2
13	101287115	0.002902758	TMTC4	1378	7
17	72301473	0.000725163	DNAI2	1379	2
1	207134428	0.001098097	FCAMR	1366	3
12	8281883	0.001450326	CLEC4A	1379	4
3	52597381	0.003263234	PBRM1	1379	8
17	39659241	0.000727273	KRT13	1375	2
10	102283641	0.001089325	NDUFB8	1377	3
17	6927857	0.001089325	BCL6B	1377	3
10	60994192	0.001090116	PHYHIPL	1376	3
8	145735769	0.001814224	MFSD3	1378	4
1	160801162	0.001812908	CD244	1379	5
1	70887262	0.000725689	CTH	1378	2
5	149574424	0.000725163	SLC6A7	1379	2
7	100466210	0.001836885	TRIP6	1361	4
3	129695586	0.001099707	TRH	1364	3
1	44085376	0.000725689	PTPRF	1378	2
20	37601212	0.002177068	DHX35	1378	5
10	128114654	0.002177068	C10orf90	1378	6
6	3119698	0.001452433	BPHL	1377	4
19	37098453	0.002538071	ZNF382	1379	6
12	57858560	0.001812908	GLI1	1379	5
1	63284692	0.001815541	ATG4C	1377	4
1	46826464	0.000727273	NSUN4	1375	2
13	30090302	0.001092498	SLC7A1	1373	3
3	157004452	0.001088534	VEPH1	1378	3
7	150695524	0.002186589	NOS3	1372	4
12	48919448	0.002175489	OR8S1	1379	5
7	90895117	0.001454545	FZD1	1375	4
3	46963588	0.000747384	CCDC12	1338	2
3	125734340	0.000726216	SLC41A3	1377	2
11	93090210	0.001478197	CCDC67	1353	4
4	129003392	0.002538071	LARP1B	1379	7
7	99753351	0.001451379	C7orf43	1378	4
1	169483676	0.002900653	F5	1379	8
7	102462560	0.002175489	FBXL13	1379	6
5	33448658	0.002900653	TARS	1379	6
1	156509310	0.00181686	IQGAP3	1376	5

18	46623809	0.001814224	DYM	1378	5
14	21109169	0.001098097	OR6S1	1366	3
8	91029466	0.001087745	DECR1	1379	3
11	76825335	0.001090909	CAPN5	1375	3
11	125542525	0.002175489	ACRV1	1379	4
16	20370651	0.001812908	PDILT	1379	4
9	133569197	0.001457726	EXOSC2	1372	4
4	54256729	0.002175489	FIP1L1	1379	6
1	54238017	0.002178649	NDC1	1377	5
6	35467758	0.00181686	TULP1	1376	4
19	51170517	0.001102941	SHANK1	1360	3
1	89206675	0.001457726	PKN2	1372	4
20	1532639	0.000728332	RP4-576H24.4	1373	2
11	126134377	0.002538071	SRPR	1379	7
12	56625132	0.001089325	SLC39A5	1377	3
8	100899741	0.002199413	COX6C	1364	2
1	45478825	0.001451379	UROD	1378	4
4	108911074	0.00181686	HADH	1376	5
16	31371065	0.002539913	ITGAX	1378	5
11	20398193	0.000728332	HTATIP2	1373	2
12	121678631	0.001459854	CAMKK2	1370	4
18	74962725	0.001088534	GALR1	1378	3
1	89615138	0.001450326	GBP7	1379	4
1	201291200	0.001090909	PKP1	1375	3
12	124130109	0.001452433	GTF2H3	1377	4
12	57619133	0.000739645	NXPH4	1352	2
2	239162244	0.001814224	PER2	1378	5
11	12225831	0.002541757	MICAL2	1377	7
2	97373540	0.002177068	LMAN2L	1378	6
4	129809878	0.000725689	SCLT1	1378	2
4	72994302	0.003263234	NPFFR2	1379	7
3	100057937	0.001814224	NIT2	1378	3
16	25251241	0.001451379	ZKSCAN2	1378	4
19	51132700	0.001107011	SYT3	1355	3
19	43967328	0.002183406	LYPD3	1374	4
9	118949469	0.002175489	PAPPA	1379	5
1	165377518	0.00073046	RXRG	1369	2
21	46596280	0.001450326	ADARB1	1379	4
2	206869801	0.001845018	INO80D	1355	4
15	91513669	0.002175489	PRC1	1379	5
1	63991254	0.002538071	EFCAB7	1379	7
1	247920924	0.001824818	OR1C1	1370	5
10	135176412	0.000726216	ECHS1	1377	2
19	3525956	0.001491424	FZR1	1341	3
6	42712887	0.001092498	TBCC	1373	3
6	30545231	0.001451379	ABCF1	1378	4
18	44408039	0.00181686	PIAS2	1376	5
1	228345676	0.00073046	GJC2	1369	2

19	51828696	0.001120239	IGLON5	1339	3
11	7720296	0.001106195	OVCH2	1356	3
8	145065396	0.001088534	GRINA	1378	3
17	49237383	0.001087745	NME2	1379	3
14	23371023	0.001454545	RBM23	1375	4
3	142048304	0.002902758	XRN1	1378	7
2	239092689	0.001090909	ILKAP	1375	2
22	39132337	0.001456664	SUN2	1373	4
22	30888463	0.001453488	SEC14L4	1376	4
1	169773273	0.003625816	C1orf112	1379	8
19	34934794	0.001823487	UBA2	1371	4
1	203316508	0.001088534	FMOD	1378	3
5	176885105	0.000729927	DBN1	1370	2
16	30665634	0.001450326	PRR14	1379	4
18	47091824	0.001090116	LIPG	1376	3
7	51094359	0.003263234	COBL	1379	8
11	5322602	0.001812908	OR51B4	1379	4
19	46278240	0.001465201	DMPK	1365	4
8	89053700	0.001822157	MMP16	1372	5
12	120972685	0.002900653	RNF10	1379	8
10	88702407	0.001454545	MMRN2	1375	4
7	98446292	0.002909091	TMEM130	1375	7
19	8591722	0.002175489	MYO1F	1379	6
3	56779283	0.001090116	ARHGEF3	1376	3
2	219227485	0.001090116	C2orf62	1376	3
4	152609782	0.001455604	PET112	1374	4
6	41773703	0.002184996	USP49	1373	5
1	245530209	0.005904059	KIF26B	1355	14
4	111397590	0.002538071	ENPEP	1379	7
4	56309898	0.001814224	CLOCK	1378	5
5	141694010	0.001478197	SPRY4	1353	4
12	13061200	0.00181686	GPRC5A	1376	5
11	6891493	0.000726216	OR10A2	1377	2
1	44415377	0.001814224	IPO13	1378	5
12	47163207	0.001087745	SLC38A4	1379	3
17	48821102	0.001087745	LUC7L3	1379	3
15	62359869	0.001111111	C2CD4A	1350	3
10	16635412	0.001455604	RSU1	1374	4
17	42931983	0.001453488	EFTUD2	1376	4
2	28152745	0.001087745	BRE	1379	3
22	38352878	0.001090116	POLR2F	1376	3
2	38903132	0.001088534	GALM	1378	3
10	17277249	0.000725689	VIM	1378	2
12	13208483	0.001812908	KIAA1467	1379	5
8	28956754	0.001843658	KIF13B	1356	5
20	18491531	0.001814224	SEC23B	1378	5
11	17332797	0.001088534	NUCB2	1378	3
7	138400617	0.002177068	ATP6V0A4	1378	6

12	55356552	0.000740192	TESPA1	1351	2
4	169083694	0.001812908	ANXA10	1379	5
21	17150306	0.001452433	USP25	1377	4
19	59010050	0.001812908	SLC27A5	1379	5
8	94746288	0.001454545	RBM12B	1375	4
10	101120592	0.002214022	CNNM1	1355	6
19	5917861	0.001092498	RANBP3	1373	3
1	169665675	0.002212389	SELL	1356	6
19	16630987	0.001090909	CHERP	1375	3
9	127549467	0.001452433	OLFML2A	1377	4
20	42086740	0.001451379	SRSF6	1378	4
5	139938201	0.002541757	APBB3	1377	7
19	2041054	0.001455604	MKNK2	1374	4
3	101504453	0.001812908	NXPE3	1379	4
12	113402185	0.001474926	OAS3	1356	3
4	146563586	0.001089325	MMAA	1377	3
14	67243207	0.001089325	GPHN	1377	3
12	45742320	0.001088534	ANO6	1378	3
14	22133465	0.001814224	OR4E2	1378	3
5	1235717	0.001815541	SLC6A18	1377	4
5	43246004	0.003263234	NIM1K	1379	8
8	25747322	0.000729927	EBF2	1370	2
6	159057872	0.000732601	DYNLT1	1365	2
7	150913085	0.001454545	ABCF2	1375	4
16	13329088	0.001477105	SHISA9	1354	4
18	2544262	0.002900653	METTL4	1379	7
17	55068506	0.001088534	SCPEP1	1378	3
1	213244382	0.00181686	RPS6KC1	1376	5
5	133644137	0.002581121	CDKL3	1356	7
5	36035846	0.001087745	UGT3A2	1379	3
15	72499141	0.001094891	PKM	1370	3
9	140344630	0.001090909	NSMF	1375	3
19	35250741	0.001476015	ZNF599	1355	3
5	41382011	0.001814224	PLCXD3	1378	5
11	124740167	0.001845018	ROBO3	1355	5
6	35425721	0.000364431	FANCE	1372	1
19	18507167	0.002197802	LRRC25	1365	4
8	126011727	0.000739098	SQLE	1353	2
11	73630039	0.00182615	PAAF1	1369	2
16	57485090	0.001814224	COQ9	1378	5
11	69514174	0.000746269	FGF19	1340	2
19	51273898	0.002900653	GPR32	1379	5
12	31815032	0.001090909	METTL20	1375	3
2	85981836	0.001098097	ATOH8	1366	2
9	107457478	0.000363108	OR13D1	1377	1
8	21964927	0.001108647	NUDT18	1353	3
17	73517816	0.000725689	TSEN54	1378	2
3	193343936	0.001088534	OPA1	1378	3

14	21058488	0.000726744	RNASE12	1376	2
7	5257554	0.001452433	WIPI2	1377	4
15	75798265	0.001090116	PTPN9	1376	3
6	27277206	0.003323486	POM121L2	1354	9
5	6737711	0.001815541	PAPD7	1377	4
15	42103392	0.002175489	MAPKBP1	1379	6
1	159778988	0.001087745	FCRL6	1379	3
16	66764037	0.001452433	DYNC1LI2	1377	4
13	114128561	0.001815541	DCUN1D2	1377	5
6	167424313	0.001814224	FGFR1OP	1378	5
16	11550876	0.001480385	CTD-3088G3.8	1351	4
19	11473213	0.001454545	DKFZP761J1410	1375	4
3	129155696	0.001452433	MBD4	1377	4
4	69796447	0.001089325	UGT2A3	1377	3
6	39271814	0.001830161	KCNK17	1366	3
1	113058850	0.001094092	WNT2B	1371	3
9	133339513	0.000732601	ASS1	1365	2
3	15122300	0.001090116	ZFYVE20	1376	3
17	4836306	0.001474926	GP1BA	1356	4
7	133041113	0.001087745	EXOC4	1379	3
6	16326840	0.001463058	ATXN1	1367	4
4	77816731	0.001488095	SOWAHB	1344	4
18	13884734	0.001091703	MC2R	1374	3
8	24324512	0.002175489	ADAM7	1379	6
16	88664724	0.002178649	ZC3H18	1377	5
2	113304598	0.00109569	POLR1B	1369	3
11	58170321	0.000730994	OR5B3	1368	2
16	75200668	0.001814224	ZFP1	1378	5
13	113964076	0.000726216	LAMP1	1377	2
22	22892237	0.001453488	PRAME	1376	3
17	7948224	0.002902758	ALOX15B	1378	8
16	735523	0.000734214	WDR24	1362	2
9	35107455	0.001100514	FAM214B	1363	3
4	6925736	0.001451379	TBC1D14	1378	4
3	9034733	0.001090116	SRGAP3	1376	3
7	108212357	0.001087745	DNAJB9	1379	3
1	155165811	0.003625816	THBS3	1379	10
19	12951273	0.001456664	MAST1	1373	4
12	75874826	0.001812908	GLIPR1	1379	4
20	9496118	0.000732064	LAMP5	1366	2
15	89753580	0.001089325	RLBP1	1377	3
7	156742990	0.001814224	NOM1	1378	5
10	104592761	0.001812908	CYP17A1	1379	4
12	46318566	0.002538071	SCAF11	1379	7
9	136406037	0.000736377	ADAMTSL2	1358	2
18	55103832	0.001456664	ONECUT2	1373	4
19	39971376	0.00182083	TIMM50	1373	5
6	147599255	0.001812908	STXBP5	1379	5

17	5418823	0.002538071	NLRP1	1379	7
12	3736627	0.000742942	EFCAB4B	1346	2
1	111773489	0.001088534	CHI3L2	1378	3
8	133883727	0.010877447	TG	1379	29
14	77697959	0.001106195	TMEM63C	1356	3
14	104026766	0.001087745	BAG5	1379	3
8	70476313	0.002177068	SULF1	1378	6
1	46744900	0.002539913	LRRC41	1378	7
13	98828795	0.000725163	RNF113B	1379	2
11	88061327	0.000726216	CTSC	1377	2
7	105177101	0.003633721	RINT1	1376	10
7	88962714	0.003263234	ZNF804B	1379	9
16	5075649	0.001115242	NAGPA	1345	3
21	34828044	0.001455604	TMEM50B	1374	1
19	49962949	0.001100514	ALDH16A1	1363	3
19	14507194	0.002178649	CD97	1377	6
15	91542958	0.002175489	VPS33B	1379	5
19	49225218	0.001450326	RASIP1	1379	4
1	8384462	0.002178649	SLC45A1	1377	6
19	57641458	0.001450326	USP29	1379	3
11	57947412	0.000725689	OR9Q1	1378	2
2	62099320	0.001088534	CCT4	1378	3
7	29070250	0.001089325	CPVL	1377	3
17	39019580	0.001088534	KRT12	1378	2
12	57453677	0.000725689	TMEM194A	1378	2
1	12835023	0.001089325	PRAMEF12	1377	3
9	140083613	0.001098901	SSNA1	1365	3
1	11731356	0.001090116	FBXO6	1376	3
17	33310419	0.002175489	LIG3	1379	6
3	121395741	0.007976795	GOLGB1	1379	21
19	17599688	0.004017531	SLC27A1	1369	4
2	15735297	0.001450326	DDX1	1379	4
17	34923574	0.002180233	GGNBP2	1376	5
7	99757787	0.00181686	GAL3ST4	1376	5
19	372650	0.001090116	THEG	1376	3
22	24122837	0.00181686	MMP11	1376	4
15	44097325	0.001087745	MFAP1	1379	3
1	107599536	0.002225519	PRMT6	1348	6
5	130498245	0.000728863	HINT1	1372	2
10	82331262	0.001088534	SH2D4B	1378	3
9	71532543	0.001089325	PIP5K1B	1377	3
3	140167490	0.001814224	CLSTN2	1378	5
14	45576722	0.000738007	PRPF39	1355	2
19	42083822	0.001098901	CEACAM21	1365	3
18	32833517	0.001812908	ZSCAN30	1379	5
18	40854044	0.000728863	SYT4	1372	2
1	158724856	0.000735835	OR6K6	1359	2
16	456354	0.001090909	DECR2	1375	3

2	64124669	0.001814224	VPS54	1378	5
17	66980310	0.003988397	ABCA9	1379	9
7	92078190	0.000725163	GATAD1	1379	2
17	43174506	0.000729927	NMT1	1370	2
2	202154213	0.002175489	ALS2CR12	1379	6
7	94989365	0.000726216	PON3	1377	2
1	158368580	0.001450326	OR10T2	1379	3
11	63679924	0.001451379	RCOR2	1378	2
4	70462042	0.001450326	UGT2A1	1379	3
12	8211523	0.001815541	C3AR1	1377	5
19	11832856	0.001116902	ZNF823	1343	3
19	44770476	0.002175489	ZNF233	1379	6
19	37967300	0.001451379	ZNF570	1378	3
2	182403825	0.001087745	CERKL	1379	3
5	149357913	0.002175489	SLC26A2	1379	4
3	149238618	0.001089325	WWTR1	1377	2
9	22451125	0.002900653	DMRTA1	1379	7
4	88303501	0.001090116	HSD17B11	1376	3
1	90179744	0.001087745	LRRC8C	1379	3
15	57383985	0.002541757	TCF12	1377	7
7	30825421	0.002175489	FAM188B	1379	5
10	116593051	0.002900653	FAM160B1	1379	5
17	61958136	0.000732601	GH2	1365	2
17	39643882	0.001088534	KRT36	1378	3
6	84629128	0.001087745	CYB5R4	1379	3
3	121712217	0.002180233	ILDR1	1376	6
18	34854427	0.001453488	CELF4	1376	4
18	11885793	0.000740741	MPPE1	1350	2
5	136964124	0.000725689	KLHL3	1378	2
17	48559452	0.001089325	RSAD1	1377	3
3	151598401	0.001087745	SUCNR1	1379	3
1	11333986	0.000725689	UBIAD1	1378	2
12	58004405	0.002178649	ARHGEF25	1377	6
10	18242409	0.000726744	SLC39A12	1376	2
16	82892006	0.001845018	CDH13	1355	5
12	44162063	0.001814224	IRAK4	1378	5
20	23065031	0.002188184	CD93	1371	5
1	62293163	0.001094092	INADL	1371	3
3	93803004	0.001814224	NSUN3	1378	5
7	100403260	0.002183406	EPHB4	1374	6
11	124440360	0.001450326	OR8A1	1379	4
11	116706539	0.001089325	APOA1	1377	3
10	13370368	0.000734754	SEPHS1	1361	2
2	17997909	0.000727273	MSGN1	1375	2
14	62200877	0.002175489	HIF1A	1379	6
8	19811738	0.000738007	LPL	1355	2
9	26910378	0.001088534	PLAA	1378	3
11	58189887	0.001450326	OR5B2	1379	4

10	89473924	0.001453488	PAPSS2	1376	4
13	79189800	0.002175489	RNF219	1379	6
17	62496154	0.001812908	DDX5	1379	5
15	65877144	0.001450326	VWA9	1379	4
22	45927175	0.001453488	FBLN1	1376	4
22	31679083	0.000742942	PIK3IP1	1346	2
8	104336890	0.002900653	FZD6	1379	6
6	31733739	0.001093294	VWA7	1372	3
1	32800389	0.000730994	MARCKSL1	1368	2
4	100443692	0.000726216	C4orf17	1377	2
11	118940210	0.002581121	VPS11	1356	7
19	5729951	0.001087745	CATSPERD	1379	3
20	30897889	0.000732601	KIF3B	1365	2
7	24325011	0.00074239	NPY	1347	2
1	67436620	0.001812908	MIER1	1379	5
11	4510210	0.001088534	OR52K1	1378	3
14	24760788	0.001088534	DHRS1	1378	3
8	8869093	0.001812908	ERI1	1379	5
2	27596794	0.001814224	SNX17	1378	5
10	90574920	0.002214022	LIPM	1355	6
10	73103967	0.001450326	SLC29A3	1379	4
15	70960981	0.001450326	UACA	1379	4
5	71519517	0.001450326	MRPS27	1379	4
17	79495664	0.001485884	FSCN2	1346	4
1	68591997	0.001089325	WLS	1377	3
1	205210654	0.000728332	TMCC2	1373	2
15	43426485	0.001451379	TMEM62	1378	4
8	21883032	0.000727273	NPM2	1375	2
10	103354447	0.000725689	DPCD	1378	2
12	120884134	0.000370096	TRIAP1	1351	1
17	46670900	0.000729927	HOXB5	1370	2
10	96802775	0.002539913	CYP2C8	1378	7
20	37356380	0.001453488	SLC32A1	1376	4
3	49721469	0.001134644	MST1	1322	3
11	55432667	0.002175489	OR4C6	1379	6
19	15338441	0.001461988	EPHX3	1368	4
18	12274141	0.001092498	CIDEA	1373	3
2	84744960	0.010152284	DNAH6	1379	25
4	88533323	0.002539913	DSPP	1378	7
5	1268711	0.001812908	TERT	1379	5
18	2575050	0.001814224	NDC80	1378	4
16	23360135	0.001815541	SCNN1B	1377	5
9	95992116	0.002583026	WNK2	1355	7
2	71186168	0.002539913	ATP6V1B1	1378	7
6	26188998	0.001104566	HIST1H4D	1358	3
7	29980420	0.001812908	SCRN1	1379	2
1	54417673	0.000727273	LRRC42	1375	2
20	22563456	0.001463058	FOXA2	1367	4

6	36287178	0.001089325	C6orf222	1377	3
1	159175405	0.001812908	DARC	1379	5
1	100731969	0.001451379	RTCA	1378	4
11	66328169	0.002214022	ACTN3	1355	4
1	2523427	0.000728863	MMEL1	1372	2
16	66918434	0.001088534	PDP2	1378	3
3	118931514	0.001088534	B4GALT4	1378	3
7	82389966	0.009218289	PCLO	1356	25
19	39086330	0.001099707	MAP4K1	1364	3
17	47038272	0.001814224	GIP	1378	5
9	15177783	0.002902758	TTC39B	1378	8
19	8536287	0.001090116	HNRNPM	1376	3
12	57492817	0.001087745	STAT6	1379	3
17	74740532	0.001089325	MFSD11	1377	3
1	228246883	0.000376506	WNT3A	1328	1
12	81472056	0.001457726	ACSS3	1372	3
3	149498200	0.001106195	ANKUB1	1356	3
9	139264309	0.001834189	CARD9	1363	3
11	128805595	0.001107829	TP53AIP1	1354	3
21	47711276	0.000727802	YBEY	1374	2
11	118133216	0.001450326	MPZL2	1379	3
16	71779092	0.001090116	AP1G1	1376	3
9	32973576	0.000725689	APTX	1378	2
4	76882433	0.000727273	SDAD1	1375	2
9	95870003	0.001098097	C9orf89	1366	3
5	120021962	0.001087745	PRR16	1379	3
2	233404716	0.001453488	CHRNG	1376	3
14	70243092	0.000726216	SLC10A1	1377	2
11	66358434	0.002259036	CCDC87	1328	5
6	168439354	0.001455604	KIF25	1374	4
22	30683379	0.001090909	GATSL3	1375	3
9	101125106	0.000727273	GABBR2	1375	2
22	31042800	0.000727802	SLC35E4	1374	2
4	36292175	0.001843658	DTHD1	1356	5
8	125499258	0.001450326	RNF139	1379	3
4	156764898	0.000726744	ASIC5	1376	2
5	63496657	0.001088534	RNF180	1378	3
12	56082020	0.001815541	ITGA7	1377	5
7	142723289	0.001450326	OR9A2	1379	4
1	89651028	0.001451379	GBP4	1378	4
15	65445887	0.001450326	CLPX	1379	4
17	42453505	0.001089325	ITGA2B	1377	3
5	142680091	0.000726216	NR3C1	1377	2
12	89917539	0.001140684	GALNT4	1315	3
7	128850383	0.002181818	SMO	1375	5
20	2795843	0.000731529	TMEM239	1367	2
3	50369005	0.002539913	RASSF1	1378	7
22	43435891	0.002183406	TTLL1	1374	3

17	56434692	0.001815541	RNF43	1377	5
1	168054868	0.002175489	GPR161	1379	6
19	50881013	0.00110538	NR1H2	1357	3
1	219347291	0.001089325	LYPLAL1	1377	3
22	43529272	0.001450326	MCAT	1379	4
20	24930095	0.001818182	CST7	1375	4
19	38055958	0.001812908	ZNF571	1379	4
12	76750440	0.001090909	OSBPL8	1375	3
12	105569826	0.001450326	APPL2	1379	4
6	42974735	0.001453488	PPP2R5D	1376	4
4	20736292	0.000726744	KCNIP4	1376	2
19	57953272	0.001814224	ZNF749	1378	5
5	122495285	0.001474926	PRDM6	1356	4
17	12898087	0.001453488	ELAC2	1376	4
11	57094283	0.001812908	SSRP1	1379	5
11	119002320	0.001812908	HINFP	1379	3
5	306734	0.001819505	PDCD6	1374	4
8	145763173	0.002904866	ARHGAP39	1377	6
6	345880	0.001087745	DUSP22	1379	3
10	72020426	0.001109467	NPFFR1	1352	3
5	168093744	0.002180233	SLIT3	1376	6
13	24798564	0.001094092	SPATA13	1371	3
8	72756316	0.001836885	MSC	1361	5
15	40861549	0.002177068	RPUSD2	1378	5
15	43478424	0.001452433	CCNDBP1	1377	4
1	33736182	0.000729927	ZNF362	1370	2
14	55203839	0.000726744	SAMD4A	1376	2
12	122724484	0.001451379	VPS33A	1378	4
12	113714821	0.002180233	TPCN1	1376	6
9	86616392	0.001814224	RMI1	1378	5
9	108456944	0.001089325	TMEM38B	1377	3
5	180651452	0.001812908	TRIM41	1379	5
17	73221497	0.001089325	NUP85	1377	3
16	75147533	0.000728332	LDHD	1373	2
6	52883139	0.001812908	ICK	1379	4
12	3042678	0.001088534	TULP3	1378	3
1	87025910	0.001087745	CLCA4	1379	3
3	141497334	0.001452433	GRK7	1377	4
3	113667727	0.001087745	ZDHHC23	1379	2
20	60572634	0.001818182	TAF4	1375	5
5	19473339	0.001812908	CDH18	1379	5
1	76387901	0.000726744	ASB17	1376	2
4	170017675	0.002175489	SH3RF1	1379	6
9	95481044	0.001099707	BICD2	1364	3
9	33256809	0.001814224	BAG1	1378	3
3	129389241	0.001090116	TMCC1	1376	2
17	7010373	0.001092498	ASGR2	1373	3
8	134225230	0.000726216	WISP1	1377	2

19	19014209	0.001473839	COPE	1357	3
10	25140328	0.001116071	PRTFDC1	1344	2
19	37038212	0.000369004	ZNF529	1355	1
4	74275111	0.001452433	ALB	1377	4
10	116698017	0.002177068	TRUB1	1378	6
8	90983445	0.001818182	NBN	1375	2
15	50534556	0.002175489	HDC	1379	6
6	132271181	0.001093294	CTGF	1372	3
4	119951183	0.002900653	SYNPO2	1379	7
22	46327023	0.001835536	WNT7B	1362	4
11	130278667	0.001814224	ADAMTS8	1378	5
19	38160168	0.002177068	ZNF781	1378	2
6	161143475	0.001451379	PLG	1378	4
7	56125733	0.000729395	CCT6A	1371	2
3	100000590	0.001090116	TBC1D23	1376	3
5	156890108	0.001843658	NIPAL4	1356	5
18	21759750	0.001815541	OSBPL1A	1377	5
3	157839909	0.001812908	RSRC1	1379	5
17	74003209	0.006526468	EVPL	1379	17
7	134618007	0.001455604	CALD1	1374	4
5	172513549	0.001814224	CREBRF	1378	5
6	33422995	0.001088534	ZBTB9	1378	3
5	137426347	0.000727802	WNT8A	1374	2
18	63477023	0.002178649	CDH7	1377	6
7	100883449	0.001089325	FIS1	1377	2
9	140508559	0.002178649	ARRDC1	1377	6
3	185183594	0.001087745	MAP3K13	1379	3
1	155112451	0.001100514	DPM3	1363	2
1	62913013	0.001450326	USP1	1379	4
2	209025588	0.001812908	CRYGA	1379	5
6	87725852	0.000725163	HTR1E	1379	2
6	109179440	0.001107829	ARMC2	1354	3
10	116919857	0.002175489	ATRNL1	1379	5
20	34116784	0.001847746	C20orf173	1353	3
12	22213767	0.001090909	CMAS	1375	3
11	65687496	0.000740741	DRAP1	1350	2
20	5903032	0.000728332	CHGB	1373	2
20	62369954	0.001491424	LIME1	1341	3
12	21172275	0.001812908	SLCO1B7	1379	5
16	57415969	0.001454545	CX3CL1	1375	3
20	42195059	0.00073046	SGK2	1369	2
2	75425718	0.000727273	TACR1	1375	2
21	45211284	0.001094092	RRP1	1371	3
17	3844456	0.000729395	ATP2A3	1371	2
1	79116320	0.001814224	IFI44	1378	5
6	28195173	0.002904866	ZSCAN9	1377	6
1	156698933	0.001451379	RRNAD1	1378	4
15	51221255	0.002538071	AP4E1	1379	6

5	35867573	0.002175489	IL7R	1379	6
19	16060049	0.000727273	OR10H4	1375	2
3	134670325	0.001108647	EPHB1	1353	3
6	26451908	0.001119403	BTN3A3	1340	3
4	145573764	0.002177068	HHIP	1378	4
4	169433055	0.002541757	PALLD	1377	6
1	145457942	0.000363636	POLR3GL	1375	1
19	45281355	0.001090909	CBLC	1375	3
20	21492985	0.000379075	NKX2-2	1319	1
20	34572058	0.001452433	CNBD2	1377	4
12	95396525	0.000726744	NDUFA12	1376	2
11	6239857	0.001454545	FAM160A2	1375	3
19	48789372	0.000730994	ZNF114	1368	2
21	46687504	0.001815541	POFUT2	1377	5
6	32945903	0.001450326	BRD2	1379	4
16	30793359	0.000733138	ZNF629	1364	2
19	5455671	0.00109569	ZNRF4	1369	3
1	201618013	0.005076142	NAV1	1379	13
2	30966357	0.001845018	CAPN13	1355	4
2	219142107	0.000727273	TMBIM1	1375	2
1	70761850	0.001088534	ANKRD13C	1378	3
11	125322233	0.002177068	FEZ1	1378	4
15	64404829	0.002178649	SNX1	1377	5
11	95569359	0.001814224	MTMR2	1378	5
19	53085820	0.001819505	ZNF701	1374	5
17	27183398	0.002177068	ERAL1	1378	5
10	72358047	0.002175489	PRF1	1379	5
19	13216301	0.001090116	TRMT1	1376	3
1	155209685	0.001458789	GBA	1371	4
10	121595195	0.001815541	MCMBP	1377	5
2	208795737	0.001450326	PLEKHM3	1379	4
14	75469851	0.001812908	EIF2B2	1379	3
3	47277033	0.001812908	KIF9	1379	5
3	172674554	0.001088534	SPATA16	1378	3
19	1495361	0.001091703	REEP6	1374	3
2	99860437	0.001090909	LYG2	1375	3
2	26805729	0.000727802	CIB4	1374	2
12	57109777	0.001845018	NACA	1355	5
15	59510142	0.000728863	MYO1E	1372	2
19	9296627	0.001087745	OR7D2	1379	3
19	57705270	0.002538071	ZNF264	1379	7
6	46766841	0.000726216	MEP1A	1377	2
1	153655984	0.001088534	NPR1	1378	2
11	617406	0.001822157	CDHR5	1372	5
6	33287826	0.001815541	DAXX	1377	5
12	120763718	0.000728332	PLA2G1B	1373	2
7	47698299	0.000726216	C7orf65	1377	2
17	79982169	0.001094891	LRRC45	1370	3

1	197887008	0.001814224	LHX9	1378	5
11	102395708	0.000726216	MMP7	1377	2
12	47472178	0.001087745	AMIGO2	1379	3
1	161200582	0.001090116	NR1I3	1376	3
18	215458	0.001477105	THOC1	1354	3
5	140175544	0.001453488	PCDHA2	1376	4
20	43249015	0.001812908	ADA	1379	4
11	63059025	0.001094891	SLC22A10	1370	3
18	47753869	0.002175489	CCDC11	1379	6
17	32684506	0.000725689	CCL13	1378	2
12	50152264	0.000726744	TMBIM6	1376	2
2	69092836	0.003263234	BMP10	1379	6
7	138145465	0.001088534	TRIM24	1378	3
8	134260991	0.000735835	NDRG1	1359	2
19	47823201	0.000725689	C5AR1	1378	2
2	234602167	0.001087745	UGT1A6	1379	3
19	868428	0.001472754	MED16	1358	4
1	6270327	0.001818182	RNF207	1375	5
3	131261424	0.000725689	CPNE4	1378	2
2	27315222	0.000373413	KHK	1339	1
18	70417352	0.000727802	NETO1	1374	2
2	26798960	0.000726744	C2orf70	1376	2
9	35562417	0.001476015	FAM166B	1355	4
10	50819024	0.001454545	SLC18A3	1375	4
3	98109681	0.000725163	OR5K3	1379	2
14	24709512	0.002538071	TINF2	1379	6
11	69949220	0.002212389	ANO1	1356	6
17	40840497	0.000725689	CNTNAP1	1378	2
1	180962557	0.000725689	STX6	1378	2
16	2213935	0.001089325	TRAF7	1377	3
13	78474082	0.001089325	EDNRB	1377	3
22	50684127	0.001472754	HDAC10	1358	4
2	63058278	0.002175489	EHBP1	1379	6
11	5529605	0.001089325	UBQLN3	1377	3
11	66294233	0.000725689	CTD-3074O7.11	1378	2
5	102433035	0.001088534	GIN1	1378	3
6	109796613	0.001818182	ZBTB24	1375	3
20	45003006	0.001459854	ELMO2	1370	4
19	45575251	0.001104566	ZNF296	1358	3
16	628467	0.001098901	PIGQ	1365	3
15	64204351	0.001812908	DAPK2	1379	5
9	135919252	0.001454545	GTF3C5	1375	4
1	115401273	0.002541757	SYCP1	1377	5
4	144545450	0.006268437	FREM3	1356	15
5	107197482	0.001088534	FBXL17	1378	3
19	39876749	0.001450326	PAF1	1379	4
11	60885799	0.000725689	CD5	1378	2
7	112413070	0.002175489	TMEM168	1379	6

18	13042259	0.002538071	CEP192	1379	6
2	27668614	0.003991292	IFT172	1378	9
11	61533657	0.003267974	MYRF	1377	5
20	50048783	0.001087745	NFATC2	1379	3
13	42703734	0.001452433	DGKH	1377	4
13	41827088	0.000725689	MTRF1	1378	2
8	104427305	0.002538071	DCAF13	1379	5
17	78078873	0.001459854	GAA	1370	4
17	29631603	0.002250563	EVI2B	1333	2
11	4936010	0.001088534	OR51G2	1378	3
14	36018427	0.001451379	RALGAPA1	1378	3
20	49557466	0.000726744	DPM1	1376	2
6	42141417	0.001103753	GUCA1A	1359	2
6	36929724	0.002538071	PI16	1379	7
17	38318121	0.002178649	CASC3	1377	4
19	30308108	0.000729927	CCNE1	1370	2
16	1536183	0.001109467	PTX4	1352	2
3	120128446	0.000730994	FSTL1	1368	2
16	84183939	0.00399419	DNAAF1	1377	11
3	185209469	0.000733676	TMEM41A	1363	2
5	138643814	0.001090116	MATR3	1376	3
14	20813162	0.001450326	PARP2	1379	4
1	248129304	0.000729395	OR2AK2	1371	2
2	105956091	0.001088534	C2orf49	1378	3
12	58000753	0.001463058	DTX3	1367	4
1	27943430	0.000725689	FGR	1378	2
2	239234595	0.001453488	TRAF3IP1	1376	4
6	46973595	0.003265602	GPR110	1378	9
15	56385599	0.001843658	RFX7	1356	5
11	67431882	0.001104566	ALDH3B2	1358	3
1	31347218	0.001815541	SDC3	1377	5
22	37696979	0.001087745	CYTH4	1379	3
5	109904269	0.001474926	TMEM232	1356	4
4	115544805	0.002178649	UGT8	1377	5
16	20787243	0.001087745	ACSM3	1379	3
2	106713271	0.001106195	UXS1	1356	3
1	158151311	0.001096491	CD1D	1368	3
12	123789255	0.000729395	SBNO1	1371	2
17	7578464	0.000733138	TP53	1364	2
19	14043573	0.000729927	PODNL1	1370	2
2	211060022	0.001450326	ACADL	1379	4
3	58490967	0.001814224	ACOX2	1378	5
1	32782302	0.001815541	HDAC1	1377	5
7	98779640	0.001477105	KPNA7	1354	4
1	166973461	0.001087745	MAEL	1379	3
3	57832935	0.002543605	SLMAP	1376	6
8	59499068	0.001819505	NSMAF	1374	5
4	90169364	0.002539913	GPRIN3	1378	7

17	29253833	0.000725163	ADAP2	1379	2
6	125541258	0.001092498	TPD52L1	1373	3
2	11053404	0.00110538	KCNF1	1357	3
1	218475768	0.002178649	RRP15	1377	5
5	114604661	0.001814224	CCDC112	1378	5
11	60610112	0.001822157	CCDC86	1372	5
12	108136975	0.001812908	PRDM4	1379	5
10	135053296	0.000754148	VENTX	1326	2
1	198700759	0.002177068	PTPRC	1378	6
14	88406262	0.001096491	GALC	1368	3
19	50519296	0.000731529	VRK3	1367	2
7	106924067	0.001814224	COG5	1378	4
13	37006837	0.000727273	CCNA1	1375	2
8	133146589	0.001087745	KCNQ3	1379	3
19	6383442	0.001093294	GTF2F1	1372	3
5	112321593	0.001451379	DCP2	1378	4
16	67029558	0.00181686	CES4A	1376	5
1	226044629	0.001455604	TMEM63A	1374	4
9	6413501	0.001090116	UHRF2	1376	3
12	124209229	0.003263234	ATP6V0A2	1379	9
4	94750106	0.001456664	ATOH1	1373	4
3	44611834	0.001453488	ZKSCAN7	1376	4
22	29957799	0.000734754	NIPSNAP1	1361	2
1	10459692	0.001812908	PGD	1379	5
22	22868503	0.001828822	ZNF280A	1367	5
22	19028726	0.002184996	DGCR2	1373	4
1	114453813	0.000725689	DCLRE1B	1378	2
19	19822375	0.000732601	ZNF14	1365	2
19	44891202	0.000729395	ZNF285	1371	2
19	7986945	0.001466276	SNAPC2	1364	4
16	48594665	0.000737463	N4BP1	1356	2
10	93390142	0.001088534	PPP1R3C	1378	3
22	38888057	0.001452433	DDX17	1377	4
19	8807849	0.001459854	ACTL9	1370	4
1	206905206	0.000728863	MAPKAPK2	1372	2
1	153747809	0.001824818	SLC27A3	1370	5
3	167742373	0.002175489	GOLIM4	1379	5
10	127529508	0.001088534	DHX32	1378	3
6	41708320	0.001451379	PGC	1378	4
5	79950611	0.002538071	MSH3	1379	7
11	77908994	0.003625816	USP35	1379	10
6	32155022	0.000727273	PBX2	1375	2
1	156195448	0.001090909	PMF1	1375	3
19	49142225	0.00074184	CA11	1348	2
3	37146966	0.001087745	LRRFIP2	1379	2
11	65480820	0.000725163	KAT5	1379	2
3	53902792	0.001089325	ACTR8	1377	3
7	31617843	0.002581121	CCDC129	1356	7

8	67356615	0.001812908	ADHFE1	1379	4
1	109766608	0.001088534	SARS	1378	3
19	19675889	0.001091703	PBX4	1374	2
17	37809874	0.002175489	STARD3	1379	6
2	74883697	0.003991292	SEMA4F	1378	11
17	7400227	0.001451379	POLR2A	1378	4
9	134390870	0.000725689	POMT1	1378	2
19	53571412	0.001818182	ZNF160	1375	5
16	31121794	0.001090909	BCKDK	1375	3
6	16145271	0.000372024	MYLIP	1344	1
5	147889344	0.001088534	HTR4	1378	3
10	71835533	0.000728332	H2AFY2	1373	2
11	3040464	0.000727802	CARS	1374	2
12	15777311	0.000725163	EPS8	1379	2
7	100490989	0.000735294	ACHE	1360	2
10	103588006	0.001090909	KCNIP2	1375	3
6	47846485	0.002212389	PTCHD4	1356	6
19	805147	0.00037092	PTBP1	1348	1
2	160994055	0.001090909	ITGB6	1375	3
6	33283436	0.001839588	ZBTB22	1359	5
7	95025632	0.000373413	PON1	1339	1
7	102938004	0.001087745	PMPCB	1379	3
14	23354477	0.000738007	REM2	1355	2
9	35660996	0.000372301	CCDC107	1343	1
11	65629681	0.001090909	MUS81	1375	3
20	42328530	0.00181686	MYBL2	1376	5
19	56410293	0.001812908	NLRP13	1379	5
8	70585166	0.00181686	SLCO5A1	1376	5
8	17053095	0.001110289	ZDHHC2	1351	2
19	44980677	0.002177068	ZNF180	1378	6
19	50169136	0.001098901	BCL2L12	1365	3
12	57662221	0.000726744	R3HDM2	1376	2
9	114348297	0.001089325	PTGR1	1377	3
18	33059308	0.001450326	INO80C	1379	3
15	43924424	0.000727802	CATSPER2	1374	2
14	23816921	0.001466276	SLC22A17	1364	2
7	142983249	0.001452433	TMEM139	1377	4
17	74869016	0.001088534	MGAT5B	1378	3
1	244541839	0.000725689	C1orf100	1378	2
3	101572025	0.001450326	NFKBIZ	1379	4
1	155895496	0.001087745	KIAA0907	1379	3
16	58709867	0.001452433	SLC38A7	1377	4
6	4116168	0.002538071	ECI2	1379	6
8	68007966	0.001814224	CSPP1	1378	5
4	115754809	0.002181818	NDST4	1375	5
1	18661503	0.001090116	IGSF21	1376	3
6	132891675	0.001450326	TAAR6	1379	4
2	102019146	0.001107011	RFX8	1355	3

2	170502691	0.002583026	CCDC173	1355	6
1	155921739	0.001812908	ARHGEF2	1379	5
19	53015396	0.000369549	ZNF578	1353	1
2	135095867	0.001089325	MGAT5	1377	3
10	13494646	0.001087745	BEND7	1379	3
1	16353885	0.000726744	CLCNKA	1376	2
17	1946269	0.001089325	OVCA2	1377	3
10	105207051	0.001453488	CALHM2	1376	4
1	220792000	0.001452433	MARK1	1377	4
12	132380363	0.001451379	ULK1	1378	4
17	2995621	0.001815541	OR1D2	1377	5
1	158735829	0.00109569	OR6N1	1369	3
10	27448619	0.001456664	MASTL	1373	4
20	53208189	0.000725689	DOK5	1378	2
6	29910361	0.001098097	HLA-A	1366	3
13	46716478	0.001450326	LCP1	1379	3
14	73577806	0.001087745	RBM25	1379	3
12	7883439	0.001450326	CLEC4C	1379	4
6	158353266	0.001094092	SNX9	1371	3
13	113030775	0.000373972	SPACA7	1337	1
22	31536034	0.000372024	PLA2G3	1344	1
17	39919497	0.002547307	JUP	1374	5
9	80038996	0.001451379	GNA14	1378	4
14	24737614	0.001111111	RABGGTA	1350	3
15	38988818	0.000726744	C15orf53	1376	2
1	981362	0.000734214	AGRN	1362	2
11	64010928	0.001094092	FKBP2	1371	3
1	12049245	0.002175489	MFN2	1379	6
1	93575902	0.002175489	MTF2	1379	5
1	113252913	0.000725689	PPM1J	1378	2
17	35307532	0.002175489	AATF	1379	6
16	3632621	0.00688905	SLX4	1379	17
18	21660890	0.001089325	TTC39C	1377	3
8	144461111	0.001488095	RHPN1	1344	4
5	33937121	0.001838235	RXFP3	1360	3
2	242062239	0.001452433	PASK	1377	4
16	81279085	0.001812908	BCMO1	1379	5
2	220379718	0.001836885	ASIC4	1361	5
11	66249686	0.002175489	DPP3	1379	6
14	50074478	0.001450326	LRR1	1379	4
9	97876941	0.001455604	FANCC	1374	3
6	45390348	0.000366032	RUNX2	1366	1
1	67236153	0.000362582	TCTEX1D1	1379	1
17	26817765	0.002541757	SLC13A2	1377	7
1	100174779	0.002175489	FRRS1	1379	6
13	103701774	0.002175489	SLC10A2	1379	5
19	5790072	0.000735835	DUS3L	1359	2
15	48443303	0.001812908	MYEF2	1379	5

18	51858202	0.000729927	STARD6	1370	2
6	100841714	0.000729395	SIM1	1371	2
1	154401914	0.00181686	IL6R	1376	5
1	25573036	0.001092498	C1orf63	1373	3
3	43740806	0.001087745	ABHD5	1379	3
1	48865156	0.000728863	SPATA6	1372	2
6	32809328	0.000725689	PSMB8	1378	2
1	9017269	0.001087745	CA6	1379	3
9	103204591	0.001094891	TMEFF1	1370	3
2	29293503	0.007614213	C2orf71	1379	20
17	7636475	0.012690355	DNAH2	1379	33
20	45353803	0.002539913	SLC2A10	1378	6
10	49654638	0.000730994	ARHGAP22	1368	2
2	74437127	0.000369822	MTHFD2	1352	1
3	3139608	0.000729395	IL5RA	1371	2
5	145502089	0.001451379	LARS	1378	4
7	27169074	0.000727273	HOXA4	1375	2
7	6026436	0.00181686	PMS2	1376	5
6	4099272	0.001087745	C6orf201	1379	3
19	51628988	0.001088534	SIGLEC9	1378	2
17	72768122	0.001088534	NAT9	1378	3
1	2288898	0.001089325	MORN1	1377	3
2	26414399	0.001814224	HADHA	1378	5
8	72123396	0.001450326	EYA1	1379	4
22	32616941	0.001090116	SLC5A4	1376	3
10	3124615	0.002178649	PFKP	1377	6
16	90075691	0.001098097	DBNDD1	1366	2
2	120438968	0.001459854	TMEM177	1370	3
12	53202107	0.001452433	KRT4	1377	4
9	127975703	0.000727273	RABEPK	1375	2
20	43355789	0.001115242	WISP2	1345	2
11	56127898	0.001450326	OR8J1	1379	4
10	5950963	0.001814224	FBXO18	1378	5
7	105098368	0.001452433	PUS7	1377	4
7	81611922	0.001814224	CACNA2D1	1378	5
5	52397188	0.001450326	MOCS2	1379	4
22	45741452	0.003265602	SMC1B	1378	8
19	19451657	0.001093294	MAU2	1372	3
2	39481620	0.001450326	MAP4K3	1379	4
3	132277897	0.001458789	ACAD11	1371	4
5	54721045	0.001812908	PPAP2A	1379	5
17	39458118	0.000740192	KRTAP29-1	1351	2
9	140138658	0.001090909	FAM166A	1375	3
5	26885768	0.001451379	CDH9	1378	4
6	43022115	0.001450326	MRPL2	1379	4
19	18311147	0.000364697	RAB3A	1371	1
9	129854029	0.001090116	ANGPTL2	1376	3
7	101199077	0.000745156	COL26A1	1342	2

19	58198092	0.001812908	ZNF551	1379	4
7	105636742	0.001843658	CDHR3	1356	5
11	113685949	0.002175489	USP28	1379	6
19	44128274	0.001090116	CADM4	1376	3
10	102795770	0.000726744	SFXN3	1376	2
15	99828057	0.001450326	LRRC28	1379	4
14	50118006	0.001087745	POLE2	1379	3
8	95264441	0.001094092	GEM	1371	3
1	112303419	0.003263234	DDX20	1379	8
15	85448782	0.001452433	SLC28A1	1377	3
11	62343507	0.001814224	TUT1	1378	5
10	15154886	0.001452433	NMT2	1377	4
2	209302373	0.001812908	PTH2R	1379	4
11	93862605	0.001812908	PANX1	1379	3
4	109674067	0.000725689	ETNPPL	1378	2
3	15717476	0.001477105	ANKRD28	1354	4
7	45005294	0.001814224	MYO1G	1378	5
2	43459866	0.006637168	THADA	1356	15
2	158962610	0.001087745	UPP2	1379	3
1	158450017	0.002538071	OR10R2	1379	5
1	183617312	0.001465201	APOBEC4	1365	4
16	87873421	0.000731529	SLC7A5	1367	2
2	174774830	0.000725163	SP3	1379	2
5	156635902	0.001812908	ITK	1379	4
19	37643603	0.000726744	ZNF585A	1376	2
3	49215405	0.000746269	C3orf84	1340	2
17	56274607	0.001457726	EPX	1372	3
17	71346807	0.004797048	SDK2	1355	10
11	2939250	0.00109569	SLC22A18	1369	3
6	144167302	0.000725689	LTV1	1378	2
6	170060758	0.001477105	WDR27	1354	4
3	193125128	0.002539913	ATP13A4	1378	7
1	46086604	0.001481481	CCDC17	1350	4
9	38396320	0.001818182	ALDH1B1	1375	3
4	128651810	0.001455604	SLC25A31	1374	4
6	27860681	0.002189781	HIST1H2AM	1370	5
4	99273704	0.001089325	RAP1GDS1	1377	3
2	27275942	0.001087745	AGBL5	1379	3
12	53225392	0.000731529	KRT79	1367	2
22	19443203	0.000728863	UFD1L	1372	2
9	125551360	0.001450326	OR5C1	1379	3
11	77933236	0.002538071	GAB2	1379	6
16	28115943	0.001090116	XPO6	1376	3
1	32936253	0.001477105	RP1-27O5.3	1354	4
15	79080615	0.000743494	ADAMTS7	1345	2
16	19725473	0.001090909	KNOP1	1375	3
1	151150623	0.000726216	VPS72	1377	2
14	20692165	0.001089325	OR11H6	1377	3

19	45850754	0.001463058	KLC3	1367	4
4	54966573	0.001094092	GSX2	1371	3
15	41476408	0.001812908	EXD1	1379	5
11	118889564	0.000728863	TRAPPC4	1372	2
21	41414432	0.003265602	DSCAM	1378	7
18	61582861	0.001088534	SERPINB10	1378	3
6	656317	0.000365497	HUS1B	1368	1
16	30078595	0.001450326	ALDOA	1379	4
15	43574788	0.002538071	TGM7	1379	5
11	33080503	0.001090116	TCP11L1	1376	3
6	151687213	0.001088534	ZBTB2	1378	3
19	45506210	0.001845018	RELB	1355	5
9	33120508	0.001453488	B4GALT1	1376	3
8	71495534	0.001088534	TRAM1	1378	3
1	45268436	0.002902758	PLK3	1378	8
2	95713793	0.000726744	MAL	1376	2
6	28093288	0.001087745	ZSCAN16	1379	3
8	97251799	0.001450326	MTERFD1	1379	4
16	2034723	0.000743494	GFER	1345	2
12	6334685	0.000735294	CD9	1360	2
9	139839784	0.001466276	C8G	1364	3
16	47533739	0.003625816	PHKB	1379	9
8	110287619	0.001087745	NUDCD1	1379	3
10	93668027	0.000730994	FGFBP3	1368	1
10	96961927	0.001453488	C10orf129	1376	4
2	224462214	0.000725163	SCG2	1379	2
10	75574972	0.001089325	CAMK2G	1377	3
15	45723028	0.001090116	C15orf48	1376	3
6	126288067	0.000367107	HINT3	1362	1
19	55556456	0.00109569	RDH13	1369	3
2	74761446	0.001087745	LOXL3	1379	3
8	59404982	0.001452433	CYP7A1	1377	4
10	75532564	0.002175489	FUT11	1379	6
9	35074140	0.002175489	FANCG	1379	5
20	44520911	0.001814224	CTSA	1378	5
16	3434476	0.001089325	ZSCAN32	1377	3
22	43272910	0.000726216	PACSIN2	1377	2
20	44663643	0.000728863	SLC12A5	1372	2
5	34998847	0.002538071	AGXT2	1379	7
6	80837287	0.001089325	BCKDHB	1377	3
19	12790692	0.000727273	DHPS	1375	2
2	38796348	0.000727273	HNRNPLL	1375	2
14	76905719	0.000733676	ESRRB	1363	2
1	28598351	0.001453488	SESN2	1376	4
20	47611036	0.000365764	ARFGEF2	1367	1
3	85851235	0.000732064	CADM2	1366	2
10	103869224	0.003263234	LDB1	1379	4
12	102131651	0.00036523	SYCP3	1369	1

12	122691111	0.001814224	B3GNT4	1378	4
15	89694978	0.000727273	ABHD2	1375	2
1	1847998	0.000740741	CALML6	1350	2
6	108372273	0.000726744	OSTM1	1376	2
2	163208849	0.001088534	GCA	1378	3
12	110450968	0.001455604	ANKRD13A	1374	4
5	81608650	0.001814224	ATP6AP1L	1378	5
20	31652337	0.001090909	BPIFB3	1375	3
7	150325342	0.000726216	GIMAP6	1377	2
3	50645486	0.001090909	CISH	1375	3
2	233655565	0.001451379	GIGYF2	1378	4
2	3341812	0.000375657	TSSC1	1331	1
11	66563784	0.001476015	C11orf80	1355	4
13	25459440	0.002900653	CENPJ	1379	8
12	12483365	0.000726744	MANSC1	1376	2
10	96336465	0.001088534	HELLS	1378	3
17	42249553	0.001459854	ASB16	1370	4
1	153190719	0.00037037	PRR9	1350	1
17	40725326	0.000726216	PSMC3IP	1377	2
12	105282834	0.001814224	SLC41A2	1378	4
21	46057416	0.001450326	KRTAP10-10	1379	4
17	18233902	0.001454545	SHMT1	1375	2
20	11899808	0.001094092	BTBD3	1371	3
15	42361023	0.002904866	PLA2G4D	1377	8
11	14899711	0.000725163	CYP2R1	1379	2
12	51753007	0.000726744	GALNT6	1376	2
12	112082061	0.001091703	BRAP	1374	3
6	116720395	0.001812908	DSE	1379	5
13	103515295	0.001088534	ERCC5	1378	3
8	29989776	0.000739098	MBOAT4	1353	2
12	7636005	0.000725689	CD163	1378	2
6	110522891	0.001089325	CDC40	1377	3
22	37887810	0.000727273	CARD10	1375	2
1	247769189	0.000725163	OR2G3	1379	2
3	167164222	0.001812908	SERPINI2	1379	4
6	142396960	0.001453488	NMBR	1376	3
18	74696790	0.001100514	MBP	1363	3
15	68623380	0.001478197	ITGA11	1353	4
10	95381780	0.001451379	PDE6C	1378	4
2	68882190	0.000725163	PROKR1	1379	2
7	95216763	0.001814224	PDK4	1378	5
19	9361915	0.000729395	OR7E24	1371	2
8	95448835	0.001846381	FSBP	1354	2
13	39541151	0.000367647	STOML3	1360	1
19	53643613	0.001812908	ZNF347	1379	5
15	83221289	0.000728332	CPEB1	1373	2
11	66029618	0.001819505	KLC2	1374	5
1	117616323	0.000727273	TTF2	1375	2

2	105858412	0.00182083	GPR45	1373	3
7	50173733	0.001474926	C7orf72	1356	4
3	124456892	0.001090116	UMPS	1376	3
8	21924656	0.002188184	DMTN	1371	4
1	155026653	0.002175489	ADAM15	1379	6
4	174312501	0.000363901	SCRG1	1374	1
20	30412156	0.001815541	MYLK2	1377	5
4	122068221	0.001087745	TNIP3	1379	3
12	56420625	0.001108647	IKZF4	1353	3
5	80604485	0.000365764	ZCCHC9	1367	1
6	26234692	0.001812908	HIST1H1D	1379	4
2	72411279	0.000742942	EXOC6B	1346	2
7	720324	0.001098901	PRKAR1B	1365	3
6	130761805	0.001450326	TMEM200A	1379	4
3	169802407	0.000725689	GPR160	1378	2
1	22141082	0.000363372	LDLRAD2	1376	1
19	44610582	0.001451379	ZNF224	1378	4
19	40480654	0.000727273	PSMC4	1375	2
6	29364501	0.000369276	OR12D2	1354	1
1	150956456	0.001454545	ANXA9	1375	3
4	82056379	0.000725163	PRKG2	1379	2
10	23609669	0.000738552	C10orf67	1354	2
14	37154045	0.001093294	SLC25A21	1372	2
1	67288192	0.000726216	WDR78	1377	2
15	74559071	0.002178649	CCDC33	1377	6
17	68128240	0.001088534	KCNJ16	1378	3
7	24738775	0.001812908	DFNA5	1379	5
2	133403839	0.000374251	LYPD1	1336	1
15	66727490	0.000732601	MAP2K1	1365	2
7	80108176	0.001107829	GNAT3	1354	3
17	10440706	0.000726744	MYH2	1376	2
3	184100535	0.001094891	CHRD	1370	3
1	28880168	0.000726216	TRNAU1AP	1377	2
1	210004237	0.002902758	DIEXF	1378	7
7	107414501	0.001812908	SLC26A3	1379	5
14	44974511	0.000725689	FSCB	1378	2
10	37508155	0.000735294	ANKRD30A	1360	2
2	223066728	0.002538071	PAX3	1379	7
8	87393742	0.001818182	WWP1	1375	3
6	52268213	0.002181818	PAQR8	1375	6
4	175897997	0.001814224	ADAM29	1378	5
22	46627992	0.000729395	PPARA	1371	2
11	47744722	0.001088534	FNBP4	1378	3
14	21831257	0.001088534	SUPT16H	1378	2
1	8924026	0.000727273	ENO1	1375	2
4	141313480	0.002541757	CLGN	1377	7
11	65123519	0.000377358	TIGD3	1325	1
22	29885609	0.001090116	NEFH	1376	3

13	52234761	0.001093294	WDFY2		1372	3
4	56277883	0.001093294	TMEM165		1372	3
8	144733557	0.000727273	ZNF623		1375	2
11	129980524	0.002906977	APLP2		1376	5
12	11992139	0.000726216	ETV6		1377	2
16	216665	0.000375094	HBM		1333	1
9	123370068	0.001474926	MEGF9		1356	3
5	42759255	0.001107011	CCDC152		1355	3
1	247586594	0.002177068	NLRP3		1378	5
18	55020256	0.001814224	ST8SIA3		1378	3
8	40438726	0.001090116	ZMAT4		1376	3
8	99440484	0.001812908	KCNS2		1379	5
15	99679673	0.001452433	TTC23		1377	4
17	60779084	0.001812908	MARCH10		1379	5
21	43959704	0.001092498	SLC37A1		1373	3
14	105201384	0.00181686	ADSSL1		1376	5
7	27238805	0.000370645	HOXA13		1349	1
10	32561009	0.001818182	EPC1		1375	4
1	196879495	0.001087745	CFHR4		1379	3
19	48537531	0.002543605	CABP5		1376	4
17	56599128	0.001451379		Sep-04	1378	4
3	60522685	0.001470588	FHIT		1360	1
11	7687700	0.001088534	CYB5R2		1378	3
6	30954367	0.001814224	MUC21		1378	5
7	98988600	0.000733676	ARPC1B		1363	2
11	6048344	0.000725689	OR56A1		1378	2
14	62233979	0.001089325	SNAPC1		1377	2
19	9451871	0.001812908	ZNF559		1379	5
22	39925846	0.00036523	RPS19BP1		1369	1
14	53173959	0.000365497	PSMC6		1368	1
3	33194521	0.002581121	SUSD5		1356	6
12	125432643	0.001087745	DHX37		1379	3
11	6190778	0.000745156	OR52B2		1342	2
19	37733386	0.00181686	ZNF383		1376	5
16	57153473	0.00073692	CPNE2		1357	2
7	44268523	0.000376223	CAMK2B		1329	1
18	47809695	0.001814224	CXXC1		1378	5
22	19865897	0.001453488	TXNRD2		1376	4
8	38677528	0.000727802	TACC1		1374	2
11	7324405	0.001814224	SYT9		1378	5
12	10603619	0.000744048	KLRC1		1344	2
10	5468668	0.001454545	NET1		1375	4
1	23767647	0.001090909	ASAP3		1375	3
2	27373019	0.000737463	TCF23		1356	2
1	150234014	0.000732601	CA14		1365	1
2	228552890	0.001452433	SLC19A3		1377	4
12	48866574	0.001094092	ANP32D		1371	3
11	36297688	0.001094092	COMMD9		1371	3

16	67432170	0.001453488	ZDHHC1	1376	4
16	89650442	0.002909091	CPNE7	1375	4
11	16769704	0.000371195	C11orf58	1347	1
17	46030386	0.000362582	PRR15L	1379	1
12	121458837	0.002538071	OASL	1379	7
7	150720174	0.000725689	ATG9B	1378	2
6	134210756	0.00037092	TCF21	1348	1
15	38800031	0.001109467	RASGRP1	1352	2
19	17476202	0.001828822	PLVAP	1367	3
14	50266383	0.001814224	NEMF	1378	5
15	64686214	0.001453488	TRIP4	1376	3
17	4692361	0.000371747	GLTPD2	1345	1
22	42099405	0.00295421	MEI1	1354	8
19	8953455	0.001088534	MBD3L1	1378	3
17	64210714	0.001088534	APOH	1378	3
6	107088784	0.001451379	QRSL1	1378	4
17	7123796	0.002900653	ACADVL	1379	8
9	34564618	0.001466276	CNTFR	1364	4
6	8090438	0.001087745	EEF1E1	1379	3
17	49237383	0.000725163	NME1	1379	2
22	46096210	0.000727273	ATXN10	1375	2
5	7873485	0.003625816	MTRR	1379	10
3	133119008	0.001116071	BFSP2	1344	2
10	99341118	0.000367647	ANKRD2	1360	1
14	74531993	0.001812908	ALDH6A1	1379	4
6	125283986	0.001458789	RNF217	1371	4
22	32446000	0.001087745	SLC5A1	1379	3
12	27890523	0.001093294	MRPS35	1372	3
3	194407563	0.000744602	FAM43A	1343	2
1	32829452	0.001090909	TSSK3	1375	3
2	103335435	0.000725689	MFSD9	1378	2
19	50149425	0.001094092	SCAF1	1371	3
13	27333033	0.001090116	GPR12	1376	3
3	62467408	0.002900653	CADPS	1379	8
19	4659929	0.001455604	C19orf10	1374	4
5	140710345	0.001812908	PCDHGA1	1379	5
1	92161256	0.001093294	TGFBR3	1372	3
12	65224233	0.000738007	TBC1D30	1355	2
4	120225407	0.000739098	C4orf3	1353	2
19	39798949	0.001854599	LRFN1	1348	4
16	23200936	0.001087745	SCNN1G	1379	3
17	39120743	0.001087745	KRT39	1379	3
10	96112703	0.001090909	NOC3L	1375	3
1	220964991	0.000725689	MARC1	1378	2
3	184035244	0.002900653	EIF4G1	1379	7
11	65733406	0.001094891	SART1	1370	3
8	110587148	0.002538071	SYBU	1379	5
1	36824417	0.000366032	STK40	1366	1

11	61188964	0.001090909	CPSF7	1375	3
6	24667493	0.00073046	ACOT13	1369	2
20	239883	0.000362845	DEFB132	1378	1
12	102061591	0.001451379	MYBPC1	1378	4
13	25883395	0.001452433	NUPL1	1377	2
1	246078858	0.001089325	SMYD3	1377	3
1	246921580	0.001451379	SCCPDH	1378	3
10	48371076	0.001089325	ZNF488	1377	3
4	89407357	0.000725163	HERC5	1379	2
3	44762821	0.001815541	ZNF502	1377	5
3	27431448	0.002539913	SLC4A7	1378	6
11	58723465	0.000365764	GLYATL1	1367	1
17	37369352	0.000728332	STAC2	1373	2
7	99987703	0.001088534	PILRA	1378	2
2	198265645	0.000363636	SF3B1	1375	1
21	42839740	0.001452433	TMPRSS2	1377	4
10	93185138	0.000727802	HECTD2	1374	2
2	54570867	0.001106195	C2orf73	1356	3
3	122334624	0.003265602	PARP15	1378	7
7	150384160	0.000725689	GIMAP2	1378	2
4	108578097	0.000725689	PAPSS1	1378	2
10	61815787	0.007976795	ANK3	1379	20
14	21024651	0.001088534	RNASE9	1378	3
3	121340397	0.001450326	FBXO40	1379	4
12	123466614	0.00109569	ARL6IP4	1369	2
13	51825997	0.001814224	FAM124A	1378	3
16	88889099	0.000734214	GALNS	1362	2
14	23844840	0.000371195	IL25	1347	1
16	11984977	0.000740192	GSPT1	1351	2
1	45504742	0.00109569	ZSWIM5	1369	3
14	92905715	0.000726744	SLC24A4	1376	2
6	44270610	0.002184996	AARS2	1373	5
18	2920320	0.001092498	LPIN2	1373	3
12	55794571	0.001088534	OR6C65	1378	3
22	22599393	0.000726216	VPREB1	1377	2
15	88472621	0.001458789	NTRK3	1371	4
2	176803071	0.000725689	KIAA1715	1378	2
3	150128617	0.001450326	TSC22D2	1379	4
1	29475292	0.000725163	SRSF4	1379	2
1	160969762	0.001815541	F11R	1377	4
18	43591232	0.000727802	PSTPIP2	1374	2
5	169015449	0.001818182	SPDL1	1375	4
7	17349628	0.001450326	AHR	1379	4
22	32015644	0.000729395	PISD	1371	2
9	131396585	0.000739645	WDR34	1352	2
4	84222131	0.001814224	HPSE	1378	5
14	45398260	0.002175489	KLHL28	1379	6
11	36595296	0.002175489	RAG1	1379	5

19	30164885	0.001464129	PLEKHF1	1366	4
7	65552714	0.00109569	ASL	1369	3
1	249210951	0.001450326	PGBD2	1379	4
7	83590719	0.002538071	SEMA3A	1379	6
20	742325	0.001096491	SLC52A3	1368	3
11	61570321	0.00036523	FADS1	1369	1
6	30569971	0.002175489	PPP1R10	1379	5
6	134493867	0.001450326	SGK1	1379	4
10	13152328	0.001452433	OPTN	1377	4
3	150659411	0.000725163	CLRN1	1379	2
14	99865060	0.001450326	SETD3	1379	4
19	37239384	0.000738552	ZNF850	1354	2
8	121705956	0.001451379	SNTB1	1378	4
16	74657939	0.002538071	RFWD3	1379	7
3	186335014	0.001453488	AHSG	1376	4
19	19260186	0.00036523	MEF2BNB-MEF2B	1369	1
22	38982185	0.001476015	FAM227A	1355	4
22	43569777	0.001452433	TTLL12	1377	4
4	955834	0.001094891	DGKQ	1370	3
19	19260186	0.00037037	MEF2B	1350	1
19	55399415	0.001088534	FCAR	1378	3
17	45992704	0.001452433	SP2	1377	4
16	70566518	0.001451379	SF3B3	1378	4
4	8372661	0.002545455	ACOX3	1375	6
1	151783838	0.005076142	RORC	1379	10
8	145095729	0.001450326	SPATC1	1379	4
6	136588249	0.002175489	BCLAF1	1379	6
19	44570678	0.001812908	ZNF223	1379	5
17	36476544	0.001451379	MRPL45	1378	4
6	47678618	0.001450326	GPR115	1379	4
2	70408345	0.001450326	C2orf42	1379	4
2	187692730	0.001087745	ZSWIM2	1379	3
7	90042136	0.000726216	CLDN12	1377	2
1	211751414	0.000378215	SLC30A1	1322	1
12	100897184	0.001814224	NR1H4	1378	5
10	104679568	0.000726744	CNNM2	1376	2
16	23692287	0.001087745	PLK1	1379	3
16	66855442	0.000727273	NAE1	1375	2
20	62187220	0.000728332	C20orf195	1373	2
12	2964181	0.000739645	AC005841.1	1352	1
6	138752900	0.00147929	NHSL1	1352	3
10	100144810	0.001822157	PYROXD2	1372	5
10	96998432	0.000376506	PDLIM1	1328	1
14	45369829	0.002175489	C14orf28	1379	6
8	37791865	0.001107829	GOT1L1	1354	3
20	4155767	0.00073046	SMOX	1369	2
13	52991272	0.000732064	VPS36	1366	2
11	111414729	0.001087745	LAYN	1379	3

20	34203978	0.001461988	SPAG4	1368	4
8	27516279	0.000729927	SCARA3	1370	2
11	69062825	0.001094092	MYEOV	1371	3
7	102956450	0.001814224	DNAJC2	1378	5
2	202131412	0.00182083	CASP8	1373	5
16	67762448	0.003287071	RANBP10	1369	3
12	118599598	0.001450326	TAOK3	1379	4
12	110770433	0.001815541	ATP2A2	1377	4
6	26410121	0.000725689	BTN3A1	1378	2
14	24679637	0.001450326	CHMP4A	1379	4
7	29606024	0.000755858	PRR15	1323	2
15	91500890	0.000729927	RCCD1	1370	2
2	189850496	0.001814224	COL3A1	1378	5
11	5758383	0.000725163	OR56B1	1379	2
9	103204591	0.00073692	MSANTD3	1357	2
19	47225533	0.001818182	STRN4	1375	5
7	134250273	0.000732064	AKR1B15	1366	2
19	10738639	0.001812908	SLC44A2	1379	5
20	2635165	0.001452433	NOP56	1377	4
5	141329131	0.003625816	PCDH12	1379	9
16	812751	0.002175489	MSLN	1379	6
11	4790382	0.000725689	OR51F1	1378	2
5	95734712	0.001450326	PCSK1	1379	4
20	31380445	0.001090909	DNMT3B	1375	3
3	47677523	0.001812908	SMARCC1	1379	5
17	72916068	0.001834189	USH1G	1363	4
3	51979161	0.000730994	PARP3	1368	2
9	289554	0.006526468	DOCK8	1379	18
11	58477252	0.001452433	GLYAT	1377	3
2	178990773	0.000727273	RBM45	1375	2
14	24031596	0.001450326	AP1G2	1379	4
8	103274207	0.002541757	UBR5	1377	7
2	241683389	0.000745712	KIF1A	1341	2
4	27003845	0.001450326	STIM2	1379	4
19	5591797	0.001087745	SAFB2	1379	3
10	97684534	0.001109467	C10orf131	1352	3
22	50192240	0.001812908	BRD1	1379	4
5	156456772	0.000726744	HAVCR1	1376	2
13	96205020	0.000725163	CLDN10	1379	2
1	915161	0.001111935	C1orf170	1349	3
17	45811285	0.003631082	TBX21	1377	4
20	44047493	0.002175489	PIGT	1379	6
13	53277804	0.001451379	LECT1	1378	4
1	15545913	0.001135503	TMEM51	1321	2
19	37382601	0.001450326	ZNF829	1379	4
19	52869406	0.000727273	ZNF610	1375	2
9	5231618	0.001088534	INSL4	1378	3
17	673129	0.000726216	GLOD4	1377	2

1	192150542	0.001451379	RGS18	1378	3
1	36564341	0.000746269	COL8A2	1340	2
6	108026407	0.001102131	SCML4	1361	3
10	74095672	0.000727802	DNAJB12	1374	2
3	47139498	0.000725689	SETD2	1378	2
1	179783088	0.000371747	FAM163A	1345	1
9	134183529	0.000738007	PPAPDC3	1355	2
4	2691270	0.002904866	FAM193A	1377	8
11	34130340	0.001814224	NAT10	1378	5
7	154748976	0.001107829	PAXIP1	1354	3
13	29600630	0.001450326	MTUS2	1379	4
8	105361112	0.001450326	DCSTAMP	1379	3
4	24810252	0.001452433	CCDC149	1377	4
10	123600643	0.001452433	ATE1	1377	3
7	100349391	0.006637168	ZAN	1356	17
2	220285033	0.001088534	DES	1378	3
5	139060194	0.001473839	CXXC5	1357	4
22	41166867	0.001090116	SLC25A17	1376	3
11	405937	0.001461988	SIGIRR	1368	4
3	183669769	0.001088534	ABCC5	1378	3
14	51344680	0.001814224	ABHD12B	1378	4
6	131490327	0.000727273	AKAP7	1375	2
21	38128885	0.001450326	HLCS	1379	4
2	163000663	0.001846381	GCG	1354	4
13	41303697	0.000725163	MRPS31	1379	2
7	37905190	0.001451379	NME8	1378	4
2	175213740	0.000725689	CIR1	1378	2
3	122849431	0.001451379	PDIA5	1378	3
18	11872397	0.001091703	GNAL	1374	2
11	107904638	0.001450326	CUL5	1379	4
6	41002480	0.000726744	UNC5CL	1376	2
19	9764010	0.000743494	ZNF562	1345	2
3	46939617	0.001098097	PTH1R	1366	3
6	89888767	0.000727273	GABRR1	1375	2
19	36393497	0.001094891	HCST	1370	2
21	30439280	0.000370645	CCT8	1349	1
1	152058015	0.001092498	TCHHL1	1373	3
14	73716721	0.002177068	PAPLN	1378	6
9	102590377	0.001087745	NR4A3	1379	3
17	46128778	0.001087745	NFE2L1	1379	3
9	84226842	0.000727802	TLE1	1374	2
20	31828085	0.001094891	BPIFA1	1370	2
6	4995457	0.002178649	RPP40	1377	6
17	37316873	0.00111276	ARL5C	1348	3
16	67942896	0.000726744	PSKH1	1376	2
11	62558105	0.000739098	TMEM223	1353	2
7	151664471	0.001451379	GALNTL5	1378	4
17	39634648	0.001452433	KRT35	1377	3

19	13988355	0.000372856	NANOS3	1341	1
3	189349324	0.001087745	TP63	1379	3
20	6022140	0.001493652	LRRN4	1339	2
12	120135605	0.005438724	CIT	1379	14
5	140047889	0.000729395	WDR55	1371	2
17	42090430	0.000730994	TMEM101	1368	2
12	49225899	0.000726216	DDX23	1377	2
9	136298606	0.002188184	ADAMTS13	1371	6
11	93469879	0.001450326	TAF1D	1379	4
11	5009512	0.001450326	MMP26	1379	4
21	28296619	0.002538071	ADAMTS5	1379	7
5	137589819	0.001452433	GFRA3	1377	4
11	86749112	0.001087745	TMEM135	1379	3
18	44266152	0.000727273	ST8SIA5	1375	2
6	127796479	0.001459854	SOGA3	1370	3
14	45481247	0.003263234	FAM179B	1379	9
5	147211103	0.000363901	SPINK1	1374	1
2	208994205	0.000732064	CRYGC	1366	2
12	16042865	0.000364964	STRAP	1370	1
6	136882685	0.002538071	MAP3K5	1379	7
1	15578365	0.001474926	FHAD1	1356	4
8	103845320	0.001451379	AZIN1	1378	4
4	15034797	0.001090116	CPEB2	1376	3
20	29960933	0.000362845	DEFB118	1378	1
15	73832874	0.000373413	C15orf60	1339	1
17	62080284	0.000732064	ICAM2	1366	2
4	140393952	0.000729395	RAB33B	1371	2
18	12012195	0.000731529	IMPA2	1367	2
17	72436010	0.001089325	GPRC5C	1377	3
16	28993223	0.000727273	SPNS1	1375	2
12	76424339	0.000750751	PHLDA1	1332	2
5	180432681	0.001099707	BTNL3	1364	3
11	94731894	0.000726744	KDM4D	1376	1
12	54428166	0.000365764	HOXC5	1367	1
12	57396631	0.003263234	ZBTB39	1379	9
1	41092284	0.001468429	RIMS3	1362	3
17	41003440	0.000725163	AOC3	1379	2
5	178310682	0.000725689	ZNF354B	1378	2
12	10532374	0.000725163	KLRK1	1379	2
6	11714732	0.000726744	ADTRP	1376	2
12	4479726	0.001452433	FGF23	1377	4
6	135511299	0.002900653	MYB	1379	8
8	41393916	0.001089325	GINS4	1377	3
1	160249384	0.002177068	PEX19	1378	4
20	37380823	0.000725689	ACTR5	1378	2
17	7466428	0.000381388	SENP3	1311	1
17	38609292	0.001093294	IGFBP4	1372	3
1	114640479	0.001814224	SYT6	1378	4

22	42415703	0.001087745	WBP2NL		1379	3
11	1857792	0.001096491	SYT8		1368	3
14	60936349	0.000734214	C14orf39		1362	2
19	42838298	0.002214022	MEGF8		1355	6
5	37142415	0.007614213	C5orf42		1379	20
7	55873063	0.001107011		Sep-14	1355	3
11	5566081	0.001093294	OR52H1		1372	3
8	67342031	0.001822157	RRS1		1372	5
3	73111399	0.001486989	EBLN2		1345	3
2	88472736	0.003263234	THNSL2		1379	8
12	25148862	0.00147929	C12orf77		1352	4
4	77189899	0.001814224	FAM47E-STBD1		1378	5
20	55904951	0.000729395	SPO11		1371	2
17	39464096	0.001858736	KRTAP16-1		1345	4
2	95976161	0.001093294	KCNIP3		1372	3
16	3065596	0.000732601	CLDN6		1365	2
1	110146108	0.001450326	GNAT2		1379	3
6	32800547	0.000366032	TAP2		1366	1
7	127222908	0.000725163	GCC1		1379	2
1	59125797	0.001812908	MYSM1		1379	5
11	72537627	0.001465201	ATG16L2		1365	2
16	1877288	0.001451379	FAHD1		1378	4
22	19747194	0.000734754	TBX1		1361	2
20	45173985	0.000740192	OCSTAMP		1351	2
3	39433474	0.000373972	SLC25A38		1337	1
5	41912213	0.001087745	C5orf51		1379	3
10	114286856	0.000366569	VTI1A		1364	1
17	20000025	0.002900653	SPECC1		1379	8
11	64852303	0.001450326	ZFPL1		1379	4
12	7249211	0.001451379	C1RL		1378	4
3	142840191	0.001092498	CHST2		1373	3
15	67879200	0.000725689	MAP2K5		1378	2
2	233995240	0.000738552	INPP5D		1354	2
20	13029593	0.000727802	SPTLC3		1374	2
2	113940038	0.001090116	PSD4		1376	3
10	27687233	0.002177068	PTCHD3		1378	6
16	239291	0.001451379	LUC7L		1378	4
12	133683050	0.000729395	ZNF140		1371	2
15	42678451	0.001812908	CAPN3		1379	5
7	123508646	0.001452433	HYAL4		1377	4
21	34918601	0.011602611	SON		1379	29
15	41226874	0.001107011	DLL4		1355	3
13	37569144	0.001452433	ALG5		1377	3
16	89805559	0.007976795	FANCA		1379	22
1	61554042	0.001452433	NFIA		1377	3
17	15406318	0.000728332	TVP23C		1373	2
1	159035700	0.001450326	AIM2		1379	4
22	26888105	0.002175489	TFIP11		1379	6

15	82336067	0.002184996	MEX3B	1373	6
1	109302664	0.001088534	STXBP3	1378	3
6	4069654	0.001814224	FAM217A	1378	4
19	57743935	0.000726744	AURKC	1376	2
1	11882800	0.001451379	CLCN6	1378	4
1	151337513	0.000366032	SELENBP1	1366	1
5	121406259	0.000726216	LOX	1377	2
18	2700828	0.001474926	SMCHD1	1356	4
11	113085114	0.000738552	NCAM1	1354	2
11	7982237	0.001090909	NLRP10	1375	3
16	22358308	0.001450326	CDR2	1379	3
8	67803243	0.000366032	MCMDC2	1366	1
18	24442510	0.000364431	AQP4	1372	1
18	9887845	0.000726216	TXNDC2	1377	2
16	2287822	0.000750751	DNASE1L2	1332	2
22	20103747	0.001094891	RANBP1	1370	2
11	836267	0.001461988	CD151	1368	4
1	119925593	0.001450326	HAO2	1379	4
5	136314373	0.001087745	SPOCK1	1379	3
2	160628550	0.000725689	CD302	1378	2
4	103553326	0.001452433	MANBA	1377	3
12	53165653	0.002175489	KRT76	1379	5
18	21053571	0.000366838	RIOK3	1363	1
7	141490385	0.00110538	TAS2R5	1357	3
4	42077675	0.000367107	SLC30A9	1362	1
7	75608860	0.001107829	POR	1354	3
2	29073960	0.001450326	TRMT61B	1379	4
11	71184403	0.002175489	NADSYN1	1379	6
3	4872692	0.000757576	AC018816.3	1320	1
17	36927297	0.000729927	PIP4K2B	1370	2
17	1937093	0.000725163	DPH1	1379	2
17	31267947	0.000740192	TMEM98	1351	2
6	30879212	0.001450326	GTF2H4	1379	4
12	51384670	0.000728332	SLC11A2	1373	2
8	22442663	0.001108647	PDLIM2	1353	3
5	21751943	0.003263234	CDH12	1379	8
16	58541727	0.001454545	NDRG4	1375	2
19	52941144	0.001451379	ZNF534	1378	4
1	200867486	0.001454545	C1orf106	1375	2
1	202385954	0.001814224	PPP1R12B	1378	5
4	109084735	0.00037092	LEF1	1348	1
2	177161621	0.000728332	MTX2	1373	2
17	40141486	0.000740741	DNAJC7	1350	2
3	134078187	0.00146092	AMOTL2	1369	4
1	246754893	0.001812908	CNST	1379	5
10	116225565	0.001089325	ABLIM1	1377	3
1	24495976	0.000730994	IFNLR1	1368	2
10	15107647	0.001087745	OLAH	1379	3

15	67524217	0.001450326	AAGAB	1379	4
1	201868636	0.000738552	LMOD1	1354	2
1	154201148	0.002900653	UBAP2L	1379	8
12	9073660	0.001089325	PHC1	1377	3
2	232070953	0.001452433	ARMC9	1377	4
12	55523686	0.001087745	OR9K2	1379	3
6	64430865	0.007614213	EYS	1379	21
7	20198248	0.001450326	MACC1	1379	4
12	68646382	0.000727802	IL22	1374	2
11	3111802	0.003631082	OSBPL5	1377	10
19	45317940	0.001455604	BCAM	1374	4
9	1056270	0.002175489	DMRT2	1379	6
10	102778003	0.001090909	PDZD7	1375	3
10	113915787	0.001450326	GPAM	1379	4
12	5021398	0.000725689	KCNA1	1378	2
8	143365774	0.002183406	TSNARE1	1374	5
1	28220599	0.001452433	RPA2	1377	4
2	209045480	0.001450326	C2orf80	1379	4
6	28219365	0.000725689	ZKSCAN4	1378	2
12	95663865	0.001108647	VEZT	1353	3
1	156348101	0.001456664	RHBG	1373	3
3	38519728	0.001090116	ACVR2B	1376	3
20	62493401	0.001114413	ABHD16B	1346	3
19	45991927	0.001452433	RTN2	1377	4
17	32688803	0.000380518	CCL1	1314	1
4	89527020	0.001091703	HERC3	1374	3
3	100349567	0.001450326	GPR128	1379	4
2	271909	0.001450326	ACP1	1379	4
22	24615948	0.000732064	GGT5	1366	2
8	124663821	0.001455604	KLHL38	1374	3
20	60966154	0.001090909	CABLES2	1375	3
16	90128484	0.001089325	PRDM7	1377	3
2	85866404	0.000725163	USP39	1379	2
22	50704980	0.000729395	MAPK11	1371	2
17	38933519	0.00073046	KRT27	1369	2
9	100890939	0.001088534	CORO2A	1378	3
15	72691196	0.001087745	TMEM202	1379	3
19	45480603	0.001451379	CLPTM1	1378	4
3	42950318	0.003263234	ZNF662	1379	6
16	84115500	0.001815541	MBTPS1	1377	5
11	9735049	0.001090116	SWAP70	1376	3
12	53875799	0.001456664	MAP3K12	1373	4
2	97505471	0.001452433	ANKRD23	1377	3
16	70710809	0.000381098	MTSS1L	1312	1
4	56225556	0.000725163	SRD5A3	1379	2
3	12626619	0.000726216	RAF1	1377	2
11	57456033	0.001450326	ZDHHC5	1379	4
8	75262731	0.001089325	GDAP1	1377	3

20	48156157	0.000731529	PTGIS	1367	2
4	128726380	0.001090116	HSPA4L	1376	3
1	152882350	0.000726216	IVL	1377	2
4	48887566	0.001453488	OCIAD2	1376	3
4	152212447	0.000373134	PRSS48	1340	1
12	119866517	0.001812908	CCDC60	1379	4
12	95912057	0.001450326	USP44	1379	4
12	52627115	0.001456664	KRT7	1373	4
17	55182841	0.002539913	AKAP1	1378	7
19	57765026	0.000728332	ZNF805	1373	2
3	45942397	0.001453488	CCR9	1376	4
12	121431383	0.002547307	HNF1A	1374	7
4	22403127	0.001812908	GPR125	1379	5
12	112221034	0.00181686	ALDH2	1376	3
7	140706298	0.000735835	MRPS33	1359	2
7	150490678	0.000726216	TMEM176B	1377	2
9	95765229	0.002919708	FGD3	1370	7
15	90176167	0.001461988	KIF7	1368	3
20	52569993	0.001812908	BCAS1	1379	5
15	100185849	0.001474926	MEF2A	1356	4
17	1542191	0.000746269	SCARF1	1340	2
3	128707638	0.000369276	KIAA1257	1354	1
6	110424698	0.001088534	WASF1	1378	3
3	132389094	0.001091703	UBA5	1374	3
2	176981596	0.000725689	HOXD10	1378	2
5	52778782	0.003263234	FST	1379	5
1	114483325	0.002900653	HIPK1	1379	8
19	23927490	0.001814224	ZNF681	1378	5
18	9550340	0.001450326	PPP4R1	1379	4
1	117311337	0.000727802	CD2	1374	2
2	99411015	0.001452433	KIAA1211L	1377	4
12	56114991	0.002177068	RDH5	1378	6
5	137230118	0.001088534	PKD2L2	1378	3
7	95616372	0.000367647	DYNC1I1	1360	1
17	39034554	0.00036846	KRT20	1357	1
12	79990371	0.000364431	PAWR	1372	1
19	56895819	0.001453488	ZNF582	1376	3
13	111277597	0.000728332	CARKD	1373	2
17	80016285	0.00146092	DUS1L	1369	4
8	145583439	0.000368189	SLC52A2	1358	1
19	57035750	0.002175489	ZNF471	1379	6
3	63542344	0.001111935	SYNPR	1349	3
14	61923910	0.000725689	PRKCH	1378	2
3	38409677	0.002541757	XYLB	1377	7
5	171318553	0.000379939	FBXW11	1316	1
2	61297506	0.001452433	KIAA1841	1377	4
12	272745	0.000738007	IQSEC3	1355	2
20	35507460	0.001090909	TLDC2	1375	2

3	52281142	0.00075358	PPM1M	1327	2
13	23905243	0.013052937	SACS	1379	34
1	207933021	0.000372578	CD46	1342	1
17	34951479	0.000726216	DHRS11	1377	2
16	81094944	0.001812908	C16orf46	1379	4
4	113333059	0.003263234	ALPK1	1379	8
2	242617927	0.001453488	DTYMK	1376	3
12	58088681	0.001450326	OS9	1379	4
7	106786785	0.000366569	PRKAR2B	1364	1
1	186413212	0.001812908	PDC	1379	5
6	9908792	0.000725689	OFCC1	1378	2
7	140374005	0.001450326	ADCK2	1379	3
5	35957388	0.001450326	UGT3A1	1379	4
5	110782397	0.001087745	CAMK4	1379	2
14	20215768	0.001451379	OR4Q3	1378	3
12	96371842	0.001815541	HAL	1377	5
3	40574118	0.000730994	ZNF621	1368	2
6	42227347	0.001091703	TRERF1	1374	3
19	50285067	0.000737463	AP2A1	1356	2
2	180815256	0.001476015	CWC22	1355	4
6	105219097	0.000725689	HACE1	1378	2
8	104413746	0.001454545	SLC25A32	1375	4
17	58134482	0.001087745	HEATR6	1379	3
4	2498762	0.000377358	RNF4	1325	1
4	5721073	0.002177068	EVC	1378	6
19	59073649	0.001458789	MZF1	1371	4
19	39398156	0.000380228	NFKBIB	1315	1
1	182797924	0.000363108	NPL	1377	1
10	95263015	0.000725689	CEP55	1378	2
5	61688002	0.002175489	DIMT1	1379	6
14	91338510	0.002902758	RPS6KA5	1378	8
6	26502106	0.001087745	BTN1A1	1379	3
1	156256064	0.001090909	TMEM79	1375	3
10	74658766	0.001087745	OIT3	1379	3
19	57672028	0.000735835	DUXA	1359	2
11	114315309	0.000369549	REXO2	1353	1
22	18566247	0.000726216	PEX26	1377	2
8	59058832	0.001109467	FAM110B	1352	3
6	31626963	0.001455604	C6orf47	1374	3
4	80899316	0.001843658	ANTXR2	1356	5
5	96430740	0.001451379	LIX1	1378	4
10	35928605	0.001101322	FZD8	1362	3
3	51746777	0.001090116	GRM2	1376	3
3	119582304	0.001452433	GSK3B	1377	4
7	100275134	0.000363636	GNB2	1375	1
6	88226549	0.004716981	RARS2	1378	13
16	55516854	0.001450326	MMP2	1379	4
1	229434751	0.000727802	RAB4A	1374	2

15	89010973	0.000727273	MRPS11	1375	2
3	52740708	0.001089325	SPCS1	1377	3
11	4842758	0.001842299	OR51F2	1357	5
6	127898398	0.001087745	C6orf58	1379	3
2	233393219	0.001450326	CHRND	1379	4
19	44096266	0.00182615	IRGQ	1369	5
16	30770782	0.001451379	C16orf93	1378	4
4	25256828	0.001458789	PI4K2B	1371	4
6	111196367	0.001454545	AMD1	1375	4
11	62545490	0.001089325	TAF6L	1377	3
13	27847171	0.000364431	RASL11A	1372	1
6	110567199	0.001087745	METTL24	1379	3
19	2431616	0.000726744	LMNB2	1376	2
6	130370529	0.001452433	L3MBTL3	1377	3
17	38179571	0.001454545	MED24	1375	3
4	57839514	0.002539913	NOA1	1378	6
10	99504527	0.000368732	ZFYVE27	1356	1
1	241757911	0.000727273	OPN3	1375	2
1	153536223	0.001454545	S100A2	1375	2
2	175304714	0.001450326	GPR155	1379	3
1	20517697	0.000727273	UBXN10	1375	2
1	26357752	0.00036846	EXTL1	1357	1
16	2258480	0.001104566	MLST8	1358	2
17	72366783	0.001454545	GPR142	1375	4
11	6704457	0.000376506	MRPL17	1328	1
12	52883780	0.001451379	KRT6A	1378	4
1	169390741	0.001089325	CCDC181	1377	2
18	43310337	0.000364964	SLC14A1	1370	1
8	22582371	0.000727802	PEBP4	1374	2
19	36431109	0.000740741	LRFN3	1350	2
12	107371381	0.002177068	MTERFD3	1378	6
1	119958076	0.000369004	HSD3B2	1355	1
1	248524891	0.001451379	OR2T4	1378	3
5	133745629	0.000371195	CDKN2AIPNL	1347	1
1	158436067	0.001088534	OR10K1	1378	3
9	138011564	0.000366032	OLFM1	1366	1
1	15906611	0.000727802	AGMAT	1374	2
15	83931745	0.001450326	BNC1	1379	4
17	8065012	0.000363636	VAMP2	1375	1
1	171072963	0.001451379	FMO3	1378	4
11	63365562	0.000369549	PLA2G16	1353	1
3	88188728	0.001476015	ZNF654	1355	4
12	112371702	0.001089325	TMEM116	1377	3
4	71522147	0.000726744	IGJ	1376	2
19	17327104	0.001107829	USE1	1354	3
5	178507065	0.001815541	ZNF354C	1377	1
6	31106456	0.001089325	PSORS1C1	1377	1
11	86518911	0.001458789	PRSS23	1371	4

6	117215209	0.001450326	RFX6	1379	4
6	17421844	0.001452433	CAP2	1377	3
4	170618526	0.001087745	CLCN3	1379	3
1	40960757	0.001087745	ZFP69	1379	3
16	57735854	0.001454545	CCDC135	1375	3
5	79855807	0.000364964	ANKRD34B	1370	1
12	52961454	0.001452433	KRT74	1377	4
7	150774092	0.000733676	FASTK	1363	2
19	14720916	0.000369276	CLEC17A	1354	1
10	121275120	0.001089325	RGS10	1377	2
2	173423556	0.002543605	PDK1	1376	7
18	77464888	0.001461988	CTDP1	1368	3
10	27506938	0.000726216	ACBD5	1377	2
2	130913674	0.000381098	SMPD4	1312	1
21	45165992	0.000364964	PDXK	1370	1
21	34721707	0.001094891	IFNAR1	1370	3
12	56514610	0.000736377	ZC3H10	1358	2
20	48562714	0.000725689	RNF114	1378	2
20	2795951	0.000369549	C20orf141	1353	1
14	54884632	0.000380518	CDKN3	1314	1
3	160095274	0.000369822	IFT80	1352	1
8	144801529	0.001093294	MAPK15	1372	3
10	64136383	0.000726744	ZNF365	1376	2
1	91180279	0.001099707	BARHL2	1364	3
19	50315594	0.000364431	FUZ	1372	1
1	156280772	0.001452433	CCT3	1377	3
13	39613391	0.001089325	NHLRC3	1377	3
20	42935318	0.000726216	FITM2	1377	2
6	30587498	0.001450326	MRPS18B	1379	4
3	97868917	0.000376223	OR5H14	1329	1
12	7080169	0.001109467	EMG1	1352	3
1	92495701	0.000381098	EPHX4	1312	1
18	77805831	0.001103753	RBFA	1359	3
20	2097363	0.000366838	STK35	1363	1
6	133108610	0.000727802	SLC18B1	1374	2
6	17292276	0.001459854	RBM24	1370	2
11	64807164	0.000375375	SNX15	1332	1
4	106367571	0.000364431	PPA2	1372	1
16	3117457	0.000740741	IL32	1350	2
13	111296781	0.00182083	CARS2	1373	4
2	170669007	0.000726744	METTL5	1376	2
16	67574091	0.004350979	FAM65A	1379	12
2	44041664	0.001450326	ABCG5	1379	4
8	101609041	0.001091703	SNX31	1374	3
17	79168771	0.001094891	AZI1	1370	2
12	10279215	0.001087745	CLEC7A	1379	3
1	47162274	0.000364166	EFCAB14	1373	1
5	148747006	0.000725163	PCYOX1L	1379	2

21	36206769	0.000728332	RUNX1	1373	2
4	170985881	0.001450326	AADAT	1379	4
3	21462796	0.001452433	ZNF385D	1377	3
18	677823	0.001452433	ENOSF1	1377	4
5	79024747	0.009587021	CMYA5	1356	23
19	7747434	0.000750751	TRAPPC5	1332	2
21	47556936	0.001094092	FTCD	1371	3
10	124593251	0.001088534	CUZD1	1378	3
11	65347679	0.004062038	EHBP1L1	1354	11
7	96650193	0.001091703	DLX5	1374	3
4	2306151	0.000733676	ZFYVE28	1363	2
14	77901646	0.000726216	VIPAS39	1377	2
17	48940429	0.001087745	TOB1	1379	3
22	42807472	0.000726744	NFAM1	1376	2
2	210678387	0.006632277	UNC80	1357	18
3	48789704	0.001100514	PRKAR2A	1363	1
12	111884813	0.001812908	SH2B3	1379	4
15	65040720	0.000374251	RBPMS2	1336	1
2	20402573	0.001452433	SDC1	1377	4
7	35244142	0.000364431	TBX20	1372	1
3	196793589	0.002900653	DLG1	1379	8
2	242138746	0.001452433	ANO7	1377	4
9	97325668	0.002181818	FBP2	1375	6
6	88054838	0.001474926	C6orf163	1356	4
14	105452969	0.000725689	C14orf79	1378	2
12	109505333	0.001087745	USP30	1379	3
19	6467918	0.002586844	DENND1C	1353	7
5	148679877	0.000731529	AFAP1L1	1367	2
11	11924372	0.003263234	USP47	1379	8
9	115167986	0.001090909	HSDL2	1375	3
1	110923694	0.000733138	SLC16A4	1364	2
12	96676341	0.000726744	CDK17	1376	2
9	100692392	0.001087745	HEMGN	1379	3
7	2400368	0.000726744	EIF3B	1376	2
2	170366322	0.000726744	KLHL41	1376	2
19	15567409	0.001478197	RASAL3	1353	3
16	3021546	0.001101322	PAQR4	1362	3
8	21827052	0.001843658	XPO7	1356	4
8	42295059	0.001088534	SLC20A2	1378	3
10	75186424	0.000363372	MSS51	1376	1
19	16319906	0.000366838	AP1M1	1363	1
21	35773126	0.001106195	C21orf140	1356	3
1	92697014	0.001090116	C1orf146	1376	3
17	57647902	0.001455604	DHX40	1374	3
20	43132538	0.000726216	SERINC3	1377	2
8	38146957	0.002543605	WHSC1L1	1376	7
9	130550369	0.000366032	CDK9	1366	1
6	30698878	0.001092498	FLOT1	1373	3

16	31150652	0.002539913	PRSS36	1378	7
5	147692071	0.000363108	SPINK7	1377	1
8	52233443	0.004424779	PXDNL	1356	9
20	62126421	0.00037092	EEF1A2	1348	1
6	56917514	0.001451379	KIAA1586	1378	4
16	8728908	0.002178649	METTL22	1377	6
17	4461507	0.001465201	GGT6	1365	3
1	6488457	0.001459854	ESPN	1370	4
6	99374809	0.000363372	FBXL4	1376	1
8	67408684	0.000725689	C8orf46	1378	2
19	41239098	0.000367647	ITPKC	1360	1
18	29867127	0.000728332	GAREM	1373	2
20	76939	0.000725163	DEFB125	1379	2
2	103236452	0.003263234	SLC9A2	1379	9
20	3096011	0.001102131	UBOX5	1361	3
19	16686911	0.000367647	MED26	1360	1
4	189068053	0.000731529	TRIML1	1367	2
13	41518061	0.000725689	ELF1	1378	2
12	123026614	0.009218289	KNTC1	1356	23
11	65617918	0.001831502	SNX32	1365	5
9	85914081	0.001463058	FRMD3	1367	2
2	197521470	0.001474926	CCDC150	1356	4
7	96747096	0.000738007	ACN9	1355	2
16	72137852	0.000364166	DHX38	1373	1
19	51883478	0.000732064	LIM2	1366	2
7	150163821	0.000729927	GIMAP8	1370	2
16	3406278	0.000725163	OR2C1	1379	2
2	120219486	0.00036523	SCTR	1369	1
5	146798084	0.000363636	DPYSL3	1375	1
12	110293505	0.000727273	GLTP	1375	2
4	75245242	0.000727273	EREG	1375	2
3	5241310	0.001450326	EDEM1	1379	4
2	237240142	0.001476015	IQCA1	1355	4
18	67534593	0.000725163	CD226	1379	2
15	83328697	0.002583026	AP3B2	1355	7
6	43550079	0.003625816	POLH	1379	10
12	66597653	0.002177068	IRAK3	1378	6
9	35100674	0.000732601	STOML2	1365	2
19	13080416	0.000734214	DAND5	1362	2
8	10583957	0.001474926	SOX7	1356	3
1	57395141	0.001451379	C8B	1378	4
5	121187893	0.001451379	FTMT	1378	4
5	140768341	0.000755858	PCDHGB4	1323	2
17	80195514	0.000366838	SLC16A3	1363	1
1	247695097	0.001087745	OR2C3	1379	3
12	110897580	0.000725689	GPN3	1378	2
21	42694949	0.001458789	FAM3B	1371	3
1	145586626	0.001092498	NUDT17	1373	3

10	103530228	0.000377074	FGF8	1326	1
9	119460485	0.000728332	TRIM32	1373	2
15	69714443	0.001094891	KIF23	1370	3
3	147108828	0.000739645	ZIC4	1352	2
17	48149517	0.001452433	ITGA3	1377	4
5	23526704	0.000735835	PRDM9	1359	2
19	51535257	0.000735294	KLK12	1360	2
6	26545472	0.000726216	HMGN4	1377	2
6	27782824	0.000726216	HIST1H2BM	1377	2
14	23417094	0.000726216	HAUS4	1377	2
19	48305391	0.000378215	TPRX1	1322	1
17	79612160	0.00148258	TSPAN10	1349	3
11	111899667	0.001457726	DLAT	1372	4
19	19654513	0.002913328	CILP2	1373	8
2	158152995	0.001089325	GALNT5	1377	3
1	32678117	0.001109467	DCDC2B	1352	3
4	71555013	0.000752445	UTP3	1329	2
17	19812506	0.001089325	AKAP10	1377	3
22	38483255	0.000369549	BAIAP2L2	1353	1
8	19263441	0.001451379	CSGALNACT1	1378	4
1	163297332	0.001450326	NUF2	1379	4
3	13612487	0.001481481	FBLN2	1350	4
8	56015415	0.001451379	XKR4	1378	3
3	183904012	0.003265602	ABCF3	1378	9
11	7847518	0.000365764	OR5P3	1367	1
3	146309587	0.000373134	PLSCR5	1340	1
12	54422343	0.001450326	HOXC6	1379	4
1	222736631	0.000726216	TAF1A	1377	2
17	41570255	0.000727273	DHX8	1375	2
2	96942829	0.001450326	SNRNP200	1379	4
18	9211716	0.003988397	ANKRD12	1379	9
2	136511842	0.0003663	UBXN4	1365	1
7	6205034	0.000727802	CYTH3	1374	2
16	70515720	0.001088534	COG4	1378	3
6	55684550	0.001450326	BMP5	1379	3
1	182427454	0.003687316	RGSL1	1356	10
7	6465634	0.002543605	DAGLB	1376	5
4	71347086	0.001450326	MUC7	1379	4
1	108247222	0.002175489	VAV3	1379	5
15	43628823	0.001451379	ADAL	1378	4
1	245019415	0.001812908	HNRNPU	1379	5
11	5624486	0.000726216	TRIM6-TRIM34	1377	2
9	100407915	0.002900653	NCBP1	1379	8
1	47398432	0.000740192	CYP4A11	1351	2
10	15145541	0.000729927	RPP38	1370	2
8	103564239	0.001087745	ODF1	1379	3
19	54074952	0.001451379	ZNF331	1378	3
7	148515095	0.000364431	EZH2	1372	1

20	31022970	0.000366838	ASXL1	1363	1
9	2717840	0.001452433	KCNV2	1377	4
19	3981953	0.001090116	EEF2	1376	3
1	27426954	0.002177068	SLC9A1	1378	6
8	74205003	0.000372301	RPL7	1343	1
4	57516978	0.000737463	HOPX	1356	2
11	74554357	0.003318584	XRRA1	1356	9
8	11679265	0.001088534	FDFT1	1378	3
14	24586924	0.001450326	DCAF11	1379	4
11	4869789	0.002202643	OR51S1	1362	6
5	34850365	0.002584934	TTC23L	1354	3
8	120430309	0.000726216	NOV	1377	2
12	18837196	0.001455604	PLCZ1	1374	4
17	46052666	0.000725689	CDK5RAP3	1378	2
2	219319739	0.004716981	USP37	1378	9
5	115142101	0.001450326	CDO1	1379	4
12	53552452	0.001463058	CSAD	1367	4
20	55211728	0.000726216	TFAP2C	1377	2
6	154480971	0.001455604	IPCEF1	1374	4
6	26017321	0.001451379	HIST1H1A	1378	4
11	117109501	0.001088534	RNF214	1378	3
17	61829693	0.001453488	CCDC47	1376	4
17	39258394	0.000745712	KRTAP4-16P	1341	2
20	46291882	0.000729927	SULF2	1370	2
20	35526339	0.001450326	SAMHD1	1379	4
2	158177783	0.000725689	ERMN	1378	2
21	46363726	0.000373692	FAM207A	1338	1
19	12849438	0.000727802	ASNA1	1374	2
2	239040287	0.0003663	ESPNL	1365	1
14	21250025	0.000725163	RNASE6	1379	2
22	37407222	0.000374251	TST	1336	1
19	12863425	0.001450326	BEST2	1379	4
14	23072380	0.001450326	ABHD4	1379	4
4	74904102	0.002233805	CXCL3	1343	4
6	28358665	0.001830161	ZSCAN12	1366	4
14	76620816	0.000731529	GPATCH2L	1367	2
5	79441965	0.002214022	SERINC5	1355	5
2	97007443	0.001088534	NCAPH	1378	3
5	34818903	0.001089325	RAI14	1377	3
7	91503003	0.001450326	MTERF	1379	4
12	51318979	0.000729395	METTL7A	1371	2
7	100852160	0.001451379	PLOD3	1378	4
14	24769758	0.001088534	NOP9	1378	3
5	55247419	0.001450326	IL6ST	1379	4
5	150696625	0.000726216	SLC36A2	1377	2
1	39340936	0.001088534	GJA9	1378	3
10	70176510	0.002581121	DNA2	1356	7
2	179209067	0.001089325	OSBPL6	1377	3

3	42751233	0.001452433	CCDC13	1377	4
17	27380149	0.000725689	PIPOX	1378	2
11	113650728	0.000738552	CLDN25	1354	2
19	46519612	0.001107011	CCDC61	1355	2
2	1926183	0.001474926	MYT1L	1356	4
11	121367727	0.003263234	SORL1	1379	8
3	51928955	0.000727273	IQCF1	1375	2
7	40027301	0.001450326	CDK13	1379	4
6	27100983	0.001091703	HIST1H2AG	1374	3
10	99350126	0.001096491	C10orf62	1368	3
1	154562368	0.001451379	ADAR	1378	4
4	91234019	0.000373134	CCSER1	1340	1
10	127522447	0.000727802	BCCIP	1374	2
6	43607805	0.001453488	MAD2L1BP	1376	4
15	34380273	0.000367377	EMC7	1361	1
16	89718006	0.001109467	CHMP1A	1352	2
10	102738964	0.002900653	SEMA4G	1379	8
1	64671320	0.001092498	UBE2U	1373	3
1	17265453	0.000379939	CROCC	1316	1
6	151130335	0.00073046	PLEKHG1	1369	2
17	61790816	0.000726216	STRADA	1377	2
6	36100435	0.001087745	MAPK13	1379	3
6	31698686	0.000725689	CLIC1	1378	2
19	41889737	0.000372578	TMEM91	1342	1
3	38739945	0.004354136	SCN10A	1378	10
11	45945764	0.003265602	GYLTL1B	1378	9
12	111162506	0.000363901	PPP1CC	1374	1
20	3888690	0.000364166	PANK2	1373	1
11	73362914	0.000374251	PLEKHB1	1336	1
7	102574410	0.002175489	LRRC17	1379	5
19	39306568	0.001099707	ECH1	1364	3
11	5443563	0.001087745	OR51Q1	1379	3
7	97852318	0.001477105	TECPR1	1354	3
21	38095366	0.001090116	SIM2	1376	3
20	5921893	0.001089325	TRMT6	1377	3
2	219537568	0.003625816	STK36	1379	10
7	130353932	0.001088534	TSGA13	1378	3
17	4936424	0.001452433	SLC52A1	1377	4
11	134238606	0.001450326	GLB1L2	1379	4
3	105243173	0.001450326	ALCAM	1379	4
10	25273770	0.000726216	ENKUR	1377	2
19	2989304	0.00146092	TLE6	1369	4
10	112724416	0.001815541	SHOC2	1377	5
6	43514488	0.001106195	XPO5	1356	3
2	163130436	0.001450326	IFIH1	1379	4
10	85902418	0.001451379	GHITM	1378	4
19	10071091	0.003263234	COL5A3	1379	9
10	115341736	0.001454545	HABP2	1375	4

10	1089285	0.000362845	IDI1	1378	1
1	190234045	0.001090909	BRINP3	1375	3
10	112540636	0.002215657	RBM20	1354	5
19	45762373	0.001450326	MARK4	1379	4
12	14976093	0.000725689	C12orf60	1378	2
7	91842541	0.002902758	KRIT1	1378	8
12	58144441	0.000725689	CDK4	1378	2
1	222923330	0.000365497	FAM177B	1368	1
3	58555576	0.000364166	FAM107A	1373	1
11	19209796	0.000733676	CSRP3	1363	2
9	114454354	0.005801305	C9orf84	1379	12
12	7922817	0.001500375	NANOGNB	1333	4
21	15747973	0.001088534	HSPA13	1378	3
14	55817189	0.001814224	FBXO34	1378	5
1	210194513	0.001450326	SYT14	1379	4
2	219691684	0.002541757	PRKAG3	1377	6
16	2903871	0.001094092	PRSS22	1371	3
1	145592703	0.003625816	POLR3C	1379	10
2	171675157	0.002178649	GAD1	1377	5
11	55606262	0.001450326	OR5D16	1379	4
3	183754236	0.001450326	HTR3D	1379	4
6	41029194	0.000726216	APOBEC2	1377	2
11	55873009	0.001450326	OR8H2	1379	4
9	130580499	0.001090909	ENG	1375	3
3	11831978	0.001451379	TAMM41	1378	4
11	5717516	0.002900653	TRIM22	1379	7
6	84285755	0.001110289	SNAP91	1351	3
2	234675680	0.000725163	UGT1A4	1379	2
2	234675680	0.000725163	UGT1A5	1379	2
16	3334006	0.002900653	ZNF263	1379	8
5	177576776	0.000370096	NHP2	1351	1
1	114377549	0.000726216	PTPN22	1377	2
2	70680459	0.001090909	TGFA	1375	3
3	38017377	0.000363372	CTDSPL	1376	1
1	33402454	0.000726216	RNF19B	1377	2
22	37420735	0.001455604	MPST	1374	4
16	28920054	0.001090116	RABEP2	1376	3
11	124293963	0.000728332	OR8B4	1373	2
1	28275590	0.001452433	SMPDL3B	1377	4
19	44237109	0.001814224	SMG9	1378	5
20	43804676	0.000365497	PI3	1368	1
14	93180203	0.001088534	LGMN	1378	3
17	18284996	0.00037037	EVPLL	1350	1
5	54645457	0.001455604	SKIV2L2	1374	4
2	216177334	0.001088534	ATIC	1378	3
4	71500214	0.005438724	ENAM	1379	14
4	153691010	0.001088534	TIGD4	1378	3
14	103871485	0.001089325	MARK3	1377	3

12	31850343	0.000738007	AMN1	1355	2
11	4674454	0.000725689	OR51E1	1378	2
4	100231954	0.000726216	ADH1B	1377	2
22	51009633	0.00073046	CPT1B	1369	2
7	87911964	0.00147929	STEAP4	1352	4
16	9857044	0.002900653	GRIN2A	1379	8
14	21161951	0.001849112	ANG	1352	3
12	56866523	0.000725689	GLS2	1378	2
17	73723355	0.003631082	ITGB4	1377	10
2	44073311	0.003265602	ABCG8	1378	9
6	33693267	0.000733138	IP6K3	1364	2
3	38035464	0.001451379	VILL	1378	4
17	26708304	0.000742942	SARM1	1346	2
19	10444917	0.001453488	ICAM3	1376	4
6	108502768	0.001088534	NR2E1	1378	3
9	21854841	0.000725163	MTAP	1379	2
11	67353587	0.000380518	GSTP1	1314	1
9	36594712	0.001812908	MELK	1379	5
12	128899828	0.001119403	TMEM132C	1340	2
11	2323419	0.000743494	TSPAN32	1345	2
17	4684136	0.001094092	TM4SF5	1371	3
12	55886165	0.001087745	OR6C68	1379	3
1	206972285	0.000725163	IL19	1379	2
7	106840606	0.0003663	HBP1	1365	1
3	33450969	0.001812908	UBP1	1379	4
17	44803978	0.00110538	NSF	1357	1
1	207196008	0.001452433	C1orf116	1377	4
14	88477540	0.001463058	GPR65	1367	4
4	154315465	0.000364697	MND1	1371	1
6	44218189	0.000374251	HSP90AB1	1336	1
8	41466953	0.001452433	AGPAT6	1377	3
2	97267958	0.003321033	KANSL3	1355	9
16	89920767	0.001819505	SPIRE2	1374	5
19	46331130	0.000730994	SYMPK	1368	2
1	205811318	0.00181686	PM20D1	1376	5
20	5283212	0.001087745	PROKR2	1379	3
8	17157456	0.003625816	MTMR7	1379	8
6	12292646	0.000366032	EDN1	1366	1
17	26684887	0.001104566	TMEM199	1358	3
1	32833969	0.000725689	BSDC1	1378	2
16	23540940	0.000740741	EARS2	1350	2
19	4491662	0.001096491	HDGFRP2	1368	3
2	27499621	0.001450326	DNAJC5G	1379	4
19	8367724	0.000365764	CD320	1367	1
17	1673288	0.001098097	SERPINF1	1366	3
20	57598961	0.000726216	TUBB1	1377	2
6	43745283	0.000726216	VEGFA	1377	2
3	52233295	0.000726216	ALAS1	1377	2

17	79898802	0.000381388	MYADML2	1311	1
19	35176024	0.000732601	ZNF302	1365	2
12	54106928	0.002541757	CALCOCO1	1377	7
19	51518707	0.000367918	KLK10	1359	1
13	21364610	0.003265602	XPO4	1378	9
2	223574523	0.000740192	MOGAT1	1351	2
15	98982922	0.000739098	FAM169B	1353	2
11	4824770	0.001090909	OR52R1	1375	3
1	205272624	0.001454545	NUAK2	1375	4
11	102641592	0.001088534	MMP10	1378	2
11	9534100	0.001451379	ZNF143	1378	4
6	27218825	0.000726216	PRSS16	1377	2
12	57843122	0.001087745	INHBC	1379	3
11	31436359	0.001088534	DNAJC24	1378	3
5	139936740	0.000739098	SRA1	1353	2
8	27369363	0.001087745	EPHX2	1379	3
12	105420321	0.003263234	ALDH1L2	1379	9
3	138174120	0.003625816	ESYT3	1379	9
5	140501714	0.002181818	PCDHB4	1375	5
8	36780089	0.000737463	KCNU1	1356	2
12	69140221	0.001087745	SLC35E3	1379	3
8	126051175	0.002539913	KIAA0196	1378	6
16	69458663	0.001089325	CYB5B	1377	3
2	62132898	0.000728863	COMMD1	1372	2
12	13761764	0.001090909	GRIN2B	1375	3
9	139563029	0.001093294	EGFL7	1372	3
17	80085714	0.000369276	CCDC57	1354	1
19	3204617	0.001090909	NCLN	1375	3
22	44282284	0.001098901	PNPLA5	1365	3
3	146167148	0.001453488	PLSCR2	1376	3
11	33053989	0.001451379	DEPDC7	1378	3
9	116116520	0.000362582	BSPRY	1379	1
9	125288724	0.000726744	OR1N1	1376	2
18	19112591	0.001451379	ESCO1	1378	4
2	75186514	0.001091703	POLE4	1374	2
7	127013486	0.001470588	ZNF800	1360	4
6	111678236	0.008339376	REV3L	1379	20
1	151060705	0.002175489	GABPB2	1379	6
14	73743405	0.001815541	NUMB	1377	4
12	123950129	0.001455604	SNRNP35	1374	3
9	140151316	0.001089325	NELFB	1377	3
13	44411432	0.0003663	CCDC122	1365	1
17	43922418	0.003263234	SPPL2C	1379	8
14	20388932	0.000726744	OR4K5	1376	2
1	36557526	0.001454545	ADPRHL2	1375	4
2	227659983	0.003270349	IRS1	1376	9
3	20215909	0.001450326	SGOL1	1379	4
12	4735673	0.001450326	AKAP3	1379	4

3	150377741	0.001089325	FAM194A	1377	3
19	49797279	0.001091703	SLC6A16	1374	3
5	54923741	0.000364697	SLC38A9	1371	1
19	3779187	0.000374532	MATK	1335	1
9	91616563	0.000725689	S1PR3	1378	2
2	74758734	0.001090116	HTRA2	1376	3
10	85944508	0.000373413	C10orf99	1339	1
12	50501439	0.000367377	GPD1	1361	1
12	442661	0.000363108	KDM5A	1377	1
17	7489073	0.000363372	MPDU1	1376	1
10	22618287	0.001087745	BMI1	1379	3
11	46670710	0.001814224	ATG13	1378	5
7	150846120	0.001093294	GBX1	1372	3
12	109278898	0.001091703	DAO	1374	3
3	72971430	0.002581121	GXYLT2	1356	6
1	209933533	0.001450326	TRAF3IP3	1379	4
12	10961824	0.001450326	TAS2R9	1379	4
11	77301228	0.001087745	AQP11	1379	3
1	1289421	0.001091703	MXRA8	1374	3
11	7960268	0.001088534	OR10A3	1378	3
6	30164504	0.000726216	TRIM26	1377	2
18	50432462	0.001088534	DCC	1378	3
16	8988937	0.001450326	USP7	1379	3
20	31043953	0.000369276	C20orf112	1354	1
2	37315529	0.001474926	GPATCH11	1356	3
3	155481333	0.001107011	C3orf33	1355	3
18	20562233	0.001450326	RBBP8	1379	4
2	178415774	0.001818182	TTC30B	1375	4
19	49469137	0.000729395	FTL	1371	2
2	24261532	0.001090116	C2orf44	1376	2
4	88903932	0.000363108	SPP1	1377	1
11	57182099	0.001090116	SLC43A3	1376	3
7	19739864	0.001450326	TWISTNB	1379	4
17	40719646	0.001814224	MLX	1378	5
1	111891157	0.000725163	PIFO	1379	2
10	91144224	0.000725163	IFIT1B	1379	2
1	193205412	0.000363372	CDC73	1376	1
12	56221136	0.001450326	DNAJC14	1379	3
8	139158274	0.003625816	FAM135B	1379	10
17	43313594	0.001452433	FMNL1	1377	4
1	12252954	0.000365497	TNFRSF1B	1368	1
11	47703554	0.002538071	AGBL2	1379	7
21	43802213	0.001088534	TMPRSS3	1378	3
11	64666178	0.001455604	ATG2A	1374	3
1	41283944	0.000732601	KCNQ4	1365	2
1	17349144	0.000373692	SDHB	1338	1
8	42232282	0.000726744	DKK4	1376	2
1	205116772	0.001088534	DSTYK	1378	2

1	101362190	0.000373972	SLC30A7		1337	1
14	103596385	0.001092498	TNFAIP2		1373	2
11	65547071	0.000380518	AP5B1		1314	1
5	44305161	0.000372578	FGF10		1342	1
8	22005837	0.00074184	LGI3		1348	2
12	105385534	0.000728863	C12orf45		1372	2
6	10398691	0.001090909	TFAP2A		1375	3
10	98741426	0.003263234	C10orf12		1379	8
14	37777295	0.000728863	MIPOL1		1372	2
12	54348853	0.000373972	HOXC12		1337	1
5	36197700	0.000725689	NADK2		1378	2
20	60791184	0.000743494	HRH3		1345	2
1	201832699	0.001812908	IPO9		1379	5
16	4484468	0.001091703	DNAJA3		1374	3
19	814535	0.001096491	LPPR3		1368	3
3	46580661	0.0003663	LRRC2		1365	1
18	61449695	0.001090116	SERPINB7		1376	3
18	47911658	0.000367107	SKA1		1362	1
16	1827109	0.000378215	SPSB3		1322	1
21	40823964	0.001087745	SH3BGR		1379	3
16	596956	0.00036846	CAPN15		1357	1
9	126202725	0.001088534	DENND1A		1378	3
19	59058761	0.00146092	TRIM28		1369	4
19	11728003	0.000363636	ZNF627		1375	1
2	86998781	0.000363108	RMND5A		1377	1
19	6531063	0.001458789	TNFSF9		1371	3
2	27665767	0.00146092	KRTCAP3		1369	4
6	13791084	0.001088534	MCUR1		1378	3
13	101747991	0.000725163	NALCN		1379	2
1	43002194	0.001455604	CCDC30		1374	3
2	204111594	0.001452433	CYP20A1		1377	4
2	27440873	0.007614213	CAD		1379	20
13	52439686	0.00073692	CCDC70		1357	2
5	159682583	0.0003663	CCNJL		1365	1
12	122481891	0.000733138	BCL7A		1364	2
7	31126602	0.001087745	ADCYAP1R1		1379	3
17	62018153	0.00479351	SCN4A		1356	13
3	190322045	0.001091703	IL1RAP		1374	3
1	90399607	0.001463058	LRRC8D		1367	3
14	32295903	0.000369549	NUBPL		1353	1
19	16590054	0.001088534	CALR3		1378	3
14	100847445	0.000367107	WDR25		1362	1
6	13634737	0.000726216	RANBP9		1377	2
17	26488230	0.001109467	NLK		1352	3
5	175774637	0.001457726	KIAA1191		1372	3
12	7060838	0.000726744	PTPN6		1376	2
1	35656181	0.000363901	SFPQ		1374	1
22	42383735	0.000726744		Sep-03	1376	2

10	102746649	0.000733676	MRPL43	1363	2
11	6806833	0.001087745	OR2AG1	1379	2
16	67976401	0.000369549	LCAT	1353	1
7	87517304	0.001091703	DBF4	1374	2
12	10339072	0.001459854	TMEM52B	1370	2
2	112817615	0.000726216	TMEM87B	1377	2
10	102763855	0.000745156	LZTS2	1342	2
8	97892115	0.000725163	CPQ	1379	2
19	10124144	0.001088534	RDH8	1378	3
14	38678982	0.001092498	SSTR1	1373	3
1	156894752	0.001108647	LRRC71	1353	3
3	124951564	0.000725689	ZNF148	1378	2
6	42179535	0.000729927	MRPS10	1370	2
3	71008522	0.001088534	FOXP1	1378	3
13	107209436	0.000726216	ARGLU1	1377	2
12	57926003	0.000738007	DCTN2	1355	2
7	1478524	0.001466276	MICALL2	1364	4
8	86377616	0.002175489	CA2	1379	2
7	94740590	0.003263234	PPP1R9A	1379	8
1	26784304	0.000725689	DHDDS	1378	2
6	74072925	0.000366032	KHDC3L	1366	1
9	34647685	0.000728332	GALT	1373	2
6	51484064	0.016316171	PKHD1	1379	42
7	146471420	0.001451379	CNTNAP2	1378	4
1	151315453	0.000737463	RFX5	1356	2
17	19610044	0.000748503	SLC47A2	1336	2
1	153914704	0.001477105	DENND4B	1354	4
2	220193902	0.001108647	RESP18	1353	3
11	66191595	0.001087745	NPAS4	1379	3
15	41277556	0.001455604	INO80	1374	2
1	92979481	0.002900653	EVI5	1379	7
17	57955466	0.001452433	TUBD1	1377	4
8	92032389	0.001453488	TMEM55A	1376	3
10	135122929	0.000379363	ZNF511	1318	1
10	51581371	0.001453488	NCOA4	1376	4
13	53030721	0.001450326	CKAP2	1379	4
1	153314157	0.001093294	PGLYRP4	1372	2
20	60990659	0.001109467	RBBP8NL	1352	2
2	241066186	0.001087745	MYEOV2	1379	3
22	23487589	0.001090116	RAB36	1376	3
3	184020243	0.000726744	PSMD2	1376	2
17	4856135	0.00181686	ENO3	1376	5
20	48746111	0.001106195	TMEM189	1356	3
20	48746111	0.001106195	TMEM189-UBE2V1	1356	3
20	44333591	0.000368732	WFDC10B	1356	1
14	20585944	0.000725163	OR4K17	1379	2
19	52090395	0.001450326	ZNF175	1379	4
10	73044503	0.001450326	UNC5B	1379	4

6	105572498	0.000365497	BVES	1368	1
10	124049426	0.001451379	BTBD16	1378	4
19	21205595	0.000726216	ZNF430	1377	2
7	86415991	0.001812908	GRM3	1379	5
10	127486641	0.001814224	UROS	1378	2
8	19214741	0.001453488	SH2D4A	1376	4
17	41168453	0.001451379	VAT1	1378	4
1	160771675	0.001088534	LY9	1378	3
19	54823313	0.00036523	LILRA5	1369	1
17	79632515	0.00036846	OXLD1	1357	1
11	72290346	0.001098097	PDE2A	1366	3
17	26943476	0.003625816	KIAA0100	1379	10
17	55946534	0.001461988	CUEDC1	1368	4
21	43319273	0.002538071	C2CD2	1379	5
5	112257776	0.001115242	REEP5	1345	3
10	105107043	0.001090909	PCGF6	1375	2
4	100756879	0.000369004	DAPP1	1355	1
16	8866685	0.001468429	ABAT	1362	3
11	59245063	0.000364431	OR4D10	1372	1
7	123332696	0.001090909	WASL	1375	3
6	134373533	0.001110289	SLC2A12	1351	2
2	131116979	0.001451379	PTPN18	1378	4
1	41456910	0.001090909	CTPS1	1375	3
19	7117144	0.002175489	INSR	1379	5
2	131103190	0.001465201	IMP4	1365	3
8	16025966	0.000725689	MSR1	1378	2
1	100921042	0.001087745	CDC14A	1379	3
3	179076708	0.001454545	MFN1	1375	4
6	89868094	0.000364431	PM20D2	1372	1
20	60498564	0.001463058	CDH4	1367	2
13	20333553	0.000726216	PSPC1	1377	2
2	95753184	0.001450326	MRPS5	1379	4
1	151139865	0.000363372	SCNM1	1376	1
12	31116771	0.000371195	TSPAN11	1347	1
14	56645178	0.000733676	PELI2	1363	2
3	50609228	0.000732064	HEMK1	1366	2
6	35199528	0.001452433	SCUBE3	1377	4
2	222291266	0.001089325	EPHA4	1377	3
3	42915990	0.002541757	CYP8B1	1377	7
1	247151501	0.001090116	ZNF670	1376	3
1	247151501	0.001090116	ZNF695	1376	3
4	1696499	0.001087745	SLBP	1379	3
1	86939130	0.001450326	CLCA1	1379	3
19	12738548	0.001450326	ZNF791	1379	4
15	80181491	0.000369822	MTHFS	1352	1
2	190924879	0.001088534	MSTN	1378	2
9	130495595	0.002194587	TOR2A	1367	5
17	9511458	0.00109569	WDR16	1369	3

15	97327422	0.000728863	SPATA8	1372	2
10	131959105	0.001089325	GLRX3	1377	3
1	235299076	0.000725689	RBM34	1378	2
2	223917627	0.000371747	KCNE4	1345	1
5	178459919	0.000375094	ZNF879	1333	1
13	95233415	0.000727273	TGDS	1375	2
4	87744992	0.001090116	SLC10A6	1376	3
21	40550570	0.000727273	PSMG1	1375	2
6	97246400	0.001087745	GPR63	1379	3
16	4557771	0.000378788	HMOX2	1320	1
19	50384713	0.0003663	TBC1D17	1365	1
11	18102004	0.001812908	SAAL1	1379	5
19	49253661	0.000362845	FUT1	1378	1
12	9751136	0.000725689	KLRB1	1378	2
4	71891625	0.001090909	DCK	1375	3
5	138147882	0.001089325	CTNNA1	1377	3
8	28206318	0.001093294	ZNF395	1372	3
12	109017348	0.000364697	SELPLG	1371	1
19	58046727	0.001450326	ZNF550	1379	4
8	24771571	0.001089325	NEFM	1377	3
14	100792150	0.002904866	SLC25A47	1377	8
14	50807806	0.000726216	CDKL1	1377	2
4	149356448	0.001087745	NR3C2	1379	3
17	49357416	0.000729395	UTP18	1371	2
12	57849563	0.001089325	INHBE	1377	3
13	95275504	0.000725163	GPR180	1379	2
14	58869480	0.000366569	TOMM20L	1364	1
1	117122178	0.001087745	IGSF3	1379	3
6	45870870	0.001088534	CLIC5	1378	3
14	81610497	0.000362845	TSHR	1378	1
22	25334230	0.000367107	TMEM211	1362	1
11	68029480	0.00109569	C11orf24	1369	3
17	73000160	0.000375657	CDR2L	1331	1
7	148701088	0.001450326	PDIA4	1379	4
2	197672147	0.000367918	C2orf66	1359	1
6	31237127	0.000363901	HLA-C	1374	1
13	80107572	0.00037037	NDFIP2	1350	1
14	100118685	0.001090909	HHIPL1	1375	3
16	50707389	0.000371471	SNX20	1346	1
10	95658351	0.001450326	SLC35G1	1379	4
17	74464852	0.000732601	AANAT	1365	2
1	228109605	0.00074239	WNT9A	1347	2
19	10692170	0.001109467	AP1M2	1352	3
19	46857081	0.001090116	PPP5C	1376	3
10	126523095	0.000727802	FAM175B	1374	2
17	73008947	0.000735835	ICT1	1359	2
12	122277702	0.000728863	HPD	1372	2
8	39604134	0.00073046	ADAM2	1369	2

15	100591920	0.001815541	ADAMTS17	1377	5
16	746840	0.00036523	FBXL16	1369	1
6	24564507	0.001094092	KIAA0319	1371	2
2	211301005	0.001087745	LANCL1	1379	2
9	35869714	0.001094092	OR13J1	1371	3
17	40034415	0.001090116	ACLY	1376	3
10	90351198	0.001451379	LIPJ	1378	4
4	25013996	0.000727802	LGI2	1374	2
2	204735354	0.001088534	CTLA4	1378	3
12	662780	0.00109569	B4GALNT3	1369	3
1	19611262	0.000362845	AKR7A3	1378	1
17	79654085	0.00255848	HGS	1368	7
1	15860753	0.003625816	DNAJC16	1379	8
6	83904295	0.001451379	RWDD2A	1378	4
1	2125438	0.000372856	C1orf86	1341	1
10	101157378	0.001089325	GOT1	1377	3
4	57352506	0.00109569	SRP72	1369	3
12	6964669	0.002539913	USP5	1378	7
2	62065759	0.001087745	FAM161A	1379	2
2	163044704	0.000732064	FAP	1366	2
19	1881016	0.000379075	ABHD17A	1319	1
3	133894831	0.001109467	RYK	1352	3
12	56363352	0.000368732	CDK2	1356	1
12	44130266	0.002538071	PUS7L	1379	7
2	122488543	0.000728332	NIFK	1373	2
3	126189847	0.0003663	ZXDC	1365	1
12	12870945	0.000730994	CDKN1B	1368	2
4	156711016	0.000371747	GUCY1B3	1345	1
17	18638636	0.001815541	TRIM16L	1377	1
11	4703384	0.001092498	OR51E2	1373	2
9	113457754	0.001106195	MUSK	1356	2
4	104577379	0.001089325	TACR3	1377	3
3	123332992	0.001087745	MYLK	1379	3
5	10250546	0.000371747	CCT5	1345	1
7	29874417	0.000739098	WIPF3	1353	2
5	157181986	0.000364431	LSM11	1372	1
20	10621481	0.002902758	JAG1	1378	8
7	149129247	0.001455604	ZNF777	1374	4
2	179341870	0.001088534	FKBP7	1378	3
19	52394214	0.001450326	ZNF649	1379	4
8	73993331	0.000740741	SBSPON	1350	2
8	82437310	0.001115242	FABP12	1345	2
9	108226559	0.000740192	FSD1L	1351	2
14	53522579	0.000363636	DDHD1	1375	1
10	32762895	0.001451379	CCDC7	1378	3
4	184130165	0.001843658	WWC2	1356	5
5	118968530	0.000729395	FAM170A	1371	2
11	123624385	0.000732601	OR6X1	1365	2

20	33173316	0.001089325	PIGU	1377	3
1	20067339	0.001094092	TMCO4	1371	3
5	80550306	0.000727273	CKMT2	1375	2
9	95219601	0.001089325	ASPN	1377	3
5	75919121	0.000372856	F2RL2	1341	1
11	3249894	0.00036846	MRGPRE	1357	1
12	110205958	0.001100514	FAM222A	1363	3
19	37879214	0.001088534	ZNF527	1378	3
4	37445147	0.003318584	KIAA1239	1356	9
4	48140953	0.001452433	TEC	1377	4
19	6007166	0.000733138	RFX2	1364	2
10	125801842	0.000725689	CHST15	1378	2
5	176813489	0.001107829	SLC34A1	1354	2
4	186380341	0.001087745	CCDC110	1379	3
1	161293455	0.000727273	SDHC	1375	2
13	36767948	0.001452433	SOHLH2	1377	4
7	27181690	0.000739098	HOXA5	1353	2
17	4995499	0.001088534	ZFP3	1378	3
10	116032573	0.002539913	VWA2	1378	7
6	132873940	0.001087745	TAAR8	1379	2
16	3076413	0.001456664	THOC6	1373	4
19	52825141	0.000363372	ZNF480	1376	1
20	33519934	0.002538071	GSS	1379	7
11	101762236	0.000726216	ANGPTL5	1377	2
20	13279871	0.00074184	ISM1	1348	2
1	228335177	0.000374251	GUK1	1336	1
4	84379569	0.000363372	MRPS18C	1376	1
17	33448767	0.001450326	FNDC8	1379	4
22	39421304	0.000727273	APOBEC3D	1375	2
5	149006651	0.001103753	ARHGEF37	1359	3
21	40782236	0.001087745	LCA5L	1379	2
7	149418615	0.000370645	KRBA1	1349	1
9	96846904	0.001450326	PTPDC1	1379	3
2	160132122	0.000363108	WDSUB1	1377	1
12	56522336	0.002900653	ESYT1	1379	6
17	70119017	0.000369822	SOX9	1352	1
4	188924620	0.00073046	ZFP42	1369	2
7	129367145	0.000367107	NRF1	1362	1
1	233511653	0.001102131	MLK4	1361	2
4	38690417	0.000726216	KLF3	1377	2
22	30221197	0.000365764	ASCC2	1367	1
14	35568482	0.001088534	PPP2R3C	1378	3
1	151641002	0.000726216	SNX27	1377	2
15	101865129	0.000370645	PCSK6	1349	1
3	97806209	0.001087745	OR5AC2	1379	3
14	66188621	0.000362582	FUT8	1379	1
1	160121833	0.002538071	ATP1A4	1379	7
11	6942645	0.001087745	OR2D3	1379	3

2	169940075	0.001091703	DHRS9	1374	3
15	62165599	0.010514866	VPS13C	1379	26
6	83075442	0.00036846	TPBG	1357	1
16	27353534	0.001090116	IL4R	1376	3
16	88779054	0.001102131	CTU2	1361	3
7	56066712	0.000373972	GBAS	1337	1
20	30347892	0.000727802	TPX2	1374	2
2	56419837	0.002949853	CCDC85A	1356	8
3	115560829	0.001450326	LSAMP	1379	4
4	38047493	0.000725689	TBC1D1	1378	2
4	175709965	0.000727273	GLRA3	1375	2
15	60720788	0.001450326	NARG2	1379	4
7	2956976	0.001450326	CARD11	1379	4
5	121311059	0.002177068	SRFBP1	1378	6
17	37821645	0.000369004	TCAP	1355	1
15	44776547	0.001090116	CTDSPL2	1376	3
2	231041423	0.001466276	SP110	1364	2
22	41832743	0.000381388	TOB2	1311	1
15	75042401	0.002539913	CYP1A2	1378	7
5	58481027	0.000372856	PDE4D	1341	1
9	21239874	0.000365497	IFNA14	1368	1
7	1192831	0.001089325	ZFAND2A	1377	2
3	169513346	0.000725163	LRRC34	1379	2
11	105929696	0.000364697	KBTBD3	1371	1
5	31534474	0.001088534	C5orf22	1378	3
9	8331703	0.007614213	PTPRD	1379	17
22	31583171	0.000370645	RNF185	1349	1
17	7258612	0.000735294	TMEM95	1360	2
2	25656849	0.001845018	DTNB	1355	5
1	11184567	0.001090116	MTOR	1376	3
6	39512379	0.000726216	KIF6	1377	2
19	42797766	0.000369276	CIC	1354	1
6	1624411	0.001088534	GMDS	1378	3
1	172411507	0.000729927	PIGC	1370	2
19	49573514	0.001093294	KCNA7	1372	3
1	100550969	0.001453488	SASS6	1376	3
2	158594954	0.001087745	ACVR1	1379	2
22	30689764	0.002183406	TBC1D10A	1374	5
17	40622211	0.001088534	ATP6V0A1	1378	3
14	53119003	0.000375657	ERO1L	1331	1
7	23352003	0.001090116	IGF2BP3	1376	3
16	8952240	0.000369276	CARHSP1	1354	1
10	28970340	0.000363636	BAMBI	1375	1
1	78958871	0.001088534	PTGFR	1378	2
1	157094850	0.001845018	ETV3	1355	5
2	240984604	0.001092498	OR6B3	1373	2
17	80915102	0.000366032	B3GNTL1	1366	1
17	3194942	0.001090909	OR3A1	1375	3

1	89849738	0.000364964	GBP6	1370	1
13	100153877	0.001451379	TM9SF2	1378	4
5	147781700	0.001451379	FBXO38	1378	4
20	1162075	0.000369276	TMEM74B	1354	1
11	63449161	0.001087745	RTN3	1379	3
2	18112447	0.002538071	KCNS3	1379	7
1	169345861	0.001450326	BLZF1	1379	4
6	1612265	0.000366569	FOXC1	1364	1
6	76640838	0.000729927	IMPG1	1370	2
8	127569373	0.001860119	FAM84B	1344	4
9	841858	0.001090116	DMRT1	1376	3
11	76814208	0.000378215	OMP	1322	1
19	4280170	0.001094092	SHD	1371	3
19	54600284	0.000729927	OSCAR	1370	2
16	25235837	0.001116071	AQP8	1344	1
14	61264849	0.000363372	MNAT1	1376	1
10	118305630	0.001094891	PNLIP	1370	3
19	51957520	0.001814224	SIGLEC8	1378	4
9	35957464	0.000362845	OR2S2	1378	1
19	6664983	0.001097293	TNFSF14	1367	2
19	1231104	0.000379075	C19orf26	1319	1
16	67854836	0.001452433	TSNAXIP1	1377	4
7	18705970	0.001110289	HDAC9	1351	3
19	41622425	0.000366838	CYP2F1	1363	1
16	28948829	0.000363901	CD19	1374	1
8	82615038	0.001088534	ZFAND1	1378	3
3	52830626	0.002588757	ITIH3	1352	7
19	49518904	0.000366569	RUVBL2	1364	1
1	16332447	0.001121076	C1orf64	1338	3
1	201969089	0.001098097	RNPEP	1366	2
6	116542392	0.001091703	NT5DC1	1374	3
7	156476846	0.001088534	LMBR1	1378	2
14	24435153	0.000376506	DHRS4	1328	1
17	71281916	0.001096491	CDC42EP4	1368	3
1	38478479	0.001815541	UTP11L	1377	4
19	45916982	0.001815541	ERCC1	1377	5
3	170625577	0.000367107	EIF5A2	1362	1
19	4891201	0.001108647	ARRDC5	1353	3
11	6340514	0.00074239	PRKCDBP	1347	2
8	110567014	0.000366569	EBAG9	1364	1
3	9959222	0.001096491	IL17RC	1368	3
11	32118775	0.000381098	RCN1	1312	1
22	25627695	0.000367107	CRYBB2	1362	1
6	50791339	0.001087745	TFAP2B	1379	3
3	58253010	0.000364166	ABHD6	1373	1
17	80788394	0.001814224	ZNF750	1378	4
9	139324172	0.001090116	INPP5E	1376	3
2	86346143	0.001452433	PTCD3	1377	4

3	156170709	0.001089325	KCNAB1	1377	3
11	61076470	0.001087745	DDB1	1379	3
5	180036012	0.00181686	FLT4	1376	5
15	38773557	0.001089325	FAM98B	1377	3
4	38830329	0.001451379	TLR6	1378	4
6	32150425	0.002177068	AGER	1378	5
12	64615941	0.000738552	C12orf66	1354	2
7	141414085	0.001090116	WEE2	1376	3
16	68344744	0.000372024	SLC7A6OS	1344	1
17	42226054	0.001812908	C17orf53	1379	3
2	100170911	0.002180233	AFF3	1376	6
8	79590894	0.001093294	ZC2HC1A	1372	3
7	56144551	0.001823487	SUMF2	1371	3
4	85414596	0.00036523	NKX6-1	1369	1
12	29509372	0.000725163	ERGIC2	1379	2
15	75932131	0.000379939	IMP3	1316	1
12	108686225	0.001094092	CMKLR1	1371	3
22	42956206	0.000727802	SERHL2	1374	2
5	172341773	0.000364964	ERGIC1	1370	1
11	57472590	0.000727273	MED19	1375	2
2	30785085	0.001451379	LCLAT1	1378	3
1	154987996	0.000379939	ZBTB7B	1316	1
17	8108584	0.001088534	AURKB	1378	3
5	76621538	0.002177068	PDE8B	1378	5
18	199286	0.000366032	USP14	1366	1
13	97484923	0.001090909	HS6ST3	1375	3
15	35083386	0.000364964	ACTC1	1370	1
11	63978791	0.001840943	FERMT3	1358	3
1	151372101	0.000725689	PSMB4	1378	2
11	9597502	0.000725163	WEE1	1379	2
9	21141115	0.001099707	IFNW1	1364	2
17	40274983	0.000735294	HSPB9	1360	2
19	11548702	0.001455604	PRKCSH	1374	4
7	108524182	0.001088534	C7orf66	1378	3
3	58792156	0.003988397	C3orf67	1379	11
2	74154097	0.000729927	DGUOK	1370	2
5	132199937	0.000366569	GDF9	1364	1
15	65157142	0.001089325	PLEKHO2	1377	3
19	2873558	0.001451379	ZNF556	1378	4
19	5131398	0.001102131	KDM4B	1361	2
11	73584252	0.00037037	COA4	1350	1
8	75756241	0.001087745	PI15	1379	3
8	22210574	0.001088534	PIWIL2	1378	2
4	13578508	0.007743363	BOD1L1	1356	21
19	36233548	0.001089325	U2AF1L4	1377	3
19	49978984	0.001097293	FLT3LG	1367	2
19	15164434	0.001087745	CASP14	1379	3
19	45556373	0.001096491	CLASRP	1368	3

3	98300324	0.001450326	CPOX	1379	4
1	155981618	0.000372856	SSR2	1341	1
11	67075085	0.000728332	SSH3	1373	2
4	84383726	0.001451379	FAM175A	1378	4
6	142688907	0.001843658	GPR126	1356	5
17	7827362	0.003265602	KCNAB3	1378	8
19	36633843	0.000725163	CAPNS1	1379	2
2	179977527	0.002900653	SESTD1	1379	8
19	35551550	0.001463058	HPN	1367	4
9	74810482	0.000727273	GDA	1375	2
14	50195681	0.000738552	KLHDC1	1354	2
12	72425324	0.000364964	TPH2	1370	1
19	49639179	0.001106195	PPFIA3	1356	3
11	134128979	0.000365497	ACAD8	1368	1
18	52265240	0.000727273	DYNAP	1375	2
5	115323556	0.001452433	AQPEP	1377	4
1	38185206	0.003275109	EPHA10	1374	8
6	83921685	0.001450326	ME1	1379	4
5	134099629	0.001093294	DDX46	1372	3
12	94965381	0.001089325	TMCC3	1377	3
4	153273648	0.001088534	FBXW7	1378	3
10	30316451	0.003263234	KIAA1462	1379	9
13	41639363	0.001090116	WBP4	1376	3
22	50435810	0.001097293	IL17REL	1367	3
7	1037379	0.000373972	C7orf50	1337	1
7	143573245	0.000725689	FAM115A	1378	2
21	37833515	0.000372024	CLDN14	1344	1
19	45895269	0.001101322	PPP1R13L	1362	2
14	74363216	0.001089325	ZNF410	1377	3
5	40716435	0.001087745	TTC33	1379	3
1	159826365	0.001089325	VSIG8	1377	3
19	504796	0.000369549	MADCAM1	1353	1
15	84241433	0.001088534	SH3GL3	1378	3
2	200820591	0.001106195	C2orf47	1356	2
7	102755570	0.000725689	NAPEPLD	1378	2
2	169716068	0.003265602	NOSTRIN	1378	7
6	37138771	0.00110538	PIM1	1357	2
19	40023372	0.000377644	EID2B	1324	1
16	90103782	0.000725163	GAS8	1379	2
1	100436176	0.000732064	SLC35A3	1366	2
10	118386471	0.000370096	PNLIPRP2	1351	1
3	118865791	0.001450326	C3orf30	1379	4
10	61414005	0.000729927	SLC16A9	1370	2
11	60704759	0.001100514	SLC15A3	1363	3
6	32726729	0.001454545	HLA-DQB2	1375	4
11	62762046	0.001458789	SLC22A8	1371	3
12	64383814	0.001453488	SRGAP1	1376	4
2	128627067	0.000373413	AMMECR1L	1339	1

2	128408568	0.000729395	GPR17	1371	2
15	65864617	0.000373692	PTPLAD1	1338	1
19	47260131	0.001117735	FKRP	1342	3
2	202358374	0.001812908	ALS2CR11	1379	5
4	48091803	0.000364166	TXK	1373	1
7	150746348	0.001089325	ASIC3	1377	3
17	76167926	0.000375375	SYNGR2	1332	1
6	153314091	0.000375375	MTRF1L	1332	1
15	71534996	0.001090116	THSD4	1376	3
2	26477156	0.001090116	HADHB	1376	3
15	44066823	0.001087745	ELL3	1379	3
20	60702674	0.000369004	LSM14B	1355	1
17	79060264	0.000727802	BAIAP2	1374	2
16	2806537	0.009789703	SRRM2	1379	25
22	21383370	0.00074239	SLC7A4	1347	2
3	50330718	0.00109569	HYAL3	1369	3
1	202092510	0.001089325	GPR37L1	1377	3
15	41796429	0.001457726	LTK	1372	4
12	7522062	0.003263234	CD163L1	1379	7
9	38411411	0.001088534	IGFBPL1	1378	2
1	43772860	0.001461988	TIE1	1368	4
9	133901706	0.001815541	LAMC3	1377	5
7	27224448	0.001812908	HOXA11	1379	3
6	53516616	0.000725689	KLHL31	1378	2
1	26608932	0.00110538	UBXN11	1357	3
15	71184468	0.000379363	THAP10	1318	1
21	47769010	0.007251632	PCNT	1379	20
14	78028810	0.000379075	SPTLC2	1319	1
8	103225004	0.001451379	RRM2B	1378	4
15	68503644	0.000739098	CLN6	1353	2
6	75848169	0.000725689	COL12A1	1378	2
18	72913435	0.000742942	ZADH2	1346	2
12	56553497	0.000380518	MYL6	1314	1
2	233001208	0.001089325	DIS3L2	1377	3
19	1014417	0.000374813	TMEM259	1334	1
5	68492901	0.000364166	CENPH	1373	1
3	42304928	0.000366838	CCK	1363	1
20	61441871	0.001092498	OGFR	1373	3
11	43819874	0.000728863	HSD17B12	1372	2
12	50529799	0.001087745	CERS5	1379	3
6	155055029	0.002900653	SCAF8	1379	8
17	56428820	0.000363108	SUPT4H1	1377	1
5	74973700	0.001107829	POC5	1354	3
4	85530622	0.000362845	CDS1	1378	1
15	45047485	0.001087745	TRIM69	1379	3
1	203138151	0.001090116	MYBPH	1376	3
5	1879627	0.000368732	IRX4	1356	1
12	10149798	0.000727273	CLEC1B	1375	2

4	24578088	0.000725689	DHX15	1378	2
6	28327518	0.001087745	ZKSCAN3	1379	3
5	175919247	0.001088534	FAF2	1378	3
8	145730015	0.001454545	GPT	1375	4
1	100598779	0.000373134	TRMT13	1340	1
22	24106501	0.001100514	C22orf15	1363	2
7	87477191	0.000727802	SLC25A40	1374	2
6	117086325	0.001107011	FAM162B	1355	2
6	44250192	0.000728863	TCTE1	1372	2
13	114083275	0.001464129	ADPRHL1	1366	3
2	225266020	0.001096491	FAM124B	1368	3
10	91162515	0.001450326	IFIT1	1379	3
1	173720976	0.001098901	KLHL20	1365	2
11	62677421	0.001104566	CHRM1	1358	2
2	153192136	0.001110289	FMNL2	1351	3
3	71821915	0.001091703	PROK2	1374	2
5	78415133	0.001091703	BHMT	1374	3
9	139744570	0.000375375	PHPT1	1332	1
2	54014400	0.000368189	ERLEC1	1358	1
14	24807470	0.001088534	RIPK3	1378	3
10	64573203	0.001090116	EGR2	1376	3
11	64572135	0.000739098	MEN1	1353	2
7	19765370	0.000379363	TMEM196	1318	1
19	58490147	0.001098901	ZNF606	1365	3
19	40832319	0.001092498	C19orf47	1373	3
13	108922349	0.000725163	TNFSF13B	1379	2
17	54969558	0.001453488	TRIM25	1376	4
6	31324566	0.00110538	HLA-B	1357	3
17	47241620	0.000727273	B4GALNT2	1375	2
5	131607582	0.000757002	PDLIM4	1321	2
17	7186606	0.001089325	SLC2A4	1377	3
5	155771616	0.001107829	SGCD	1354	3
9	6534758	0.002180233	GLDC	1376	6
4	186097068	0.001106195	KIAA1430	1356	3
12	70071003	0.001094891	BEST3	1370	3
7	154863111	0.001087745	HTR5A	1379	3
1	24766729	0.001090116	NIPAL3	1376	3
19	56934278	0.001452433	ZNF583	1377	3
11	67799660	0.000730994	NDUFS8	1368	2
7	143792874	0.000734214	OR2A12	1362	2
3	150916259	0.001087745	GPR171	1379	3
1	154897703	0.000728863	PMVK	1372	2
4	70802839	0.000369549	CSN1S1	1353	1
19	50461586	0.000743494	SIGLEC11	1345	2
11	66333863	0.000371195	CTSF	1347	1
10	50121758	0.001090909	LRRC18	1375	3
17	4907868	0.000726216	KIF1C	1377	2
5	43039655	0.000372301	ANXA2R	1343	1

17	25628828	0.001089325	WSB1		1377	3
2	198570163	0.001088534		Mar-02	1378	3
22	30857597	0.001088534	SEC14L3		1378	3
2	192700864	0.002538071	SDPR		1379	7
4	77117005	0.000369004	SCARB2		1355	1
8	24178751	0.001823487	ADAM28		1371	3
11	124624209	0.001090116	ESAM		1376	3
9	114089793	0.001812908	OR2K2		1379	4
17	2324172	0.000727802	METTL16		1374	2
6	170844410	0.000734214	PSMB1		1362	2
5	60053460	0.001091703	ELOVL7		1374	2
16	55880395	0.001094092	CES5A		1371	3
5	71622508	0.001088534	PTCD2		1378	3
1	32691829	0.001450326	EIF3I		1379	4
19	6418059	0.000369004	KHSRP		1355	1
14	67746090	0.001814224	MPP5		1378	5
3	46399157	0.001088534	CCR2		1378	3
5	179546391	0.000369276	RASGEF1C		1354	1
17	43333745	0.00036523	SPATA32		1369	1
17	56283463	0.001452433	MKS1		1377	4
19	19308426	0.000372301	RFXANK		1343	1
12	113624597	0.000726744	RITA1		1376	2
16	88945719	0.001116071	CBFA2T3		1344	2
12	107937894	0.002902758	BTBD11		1378	7
19	57868033	0.001087745	ZNF304		1379	3
4	80246729	0.001109467	NAA11		1352	3
2	191077748	0.000726216	HIBCH		1377	2
17	3721594	0.001094891	C17orf85		1370	3
20	29845519	0.001093294	DEFB115		1372	2
10	69700712	0.001088534	HERC4		1378	2
14	21360006	0.000739645	RNASE3		1352	2
2	160585630	0.000727273	MARCH7		1375	2
14	50582842	0.000733676	VCPKMT		1363	2
14	94203709	0.00037037	PRIMA1		1350	1
11	110108360	0.000363108	RDX		1377	1
8	82665361	0.001090116	CHMP4C		1376	3
7	27195956	0.000375657	HOXA7		1331	1
17	47925310	0.000363901	TAC4		1374	1
19	14232259	0.000363901	ASF1B		1374	1
8	13424500	0.001107829	C8orf48		1354	3
3	98250908	0.000728332	GPR15		1373	2
1	43213987	0.005442671	LEPRE1		1378	14
16	3100132	0.001453488	MMP25		1376	4
10	90588410	0.000368189	ANKRD22		1358	1
19	14000839	0.001089325	C19orf57		1377	3
4	75178018	0.000363108	EPGN		1377	1
8	27288495	0.001088534	PTK2B		1378	3
18	71816279	0.001090116	TIMM21		1376	3

3	57293945	0.001450326	APPL1	1379	3
19	10655668	0.003267974	ATG4D	1377	7
9	129102894	0.00036523	MVB12B	1369	1
7	156450905	0.001090116	RNF32	1376	3
7	101256822	0.001089325	MYL10	1377	3
16	64984898	0.001454545	CDH11	1375	4
14	51190240	0.003263234	NIN	1379	9
1	166815934	0.001087745	POGK	1379	3
16	2017806	0.001478197	RNF151	1353	3
13	43493436	0.000367377	EPSTI1	1361	1
17	8193834	0.001453488	SLC25A35	1376	3
2	3391594	0.001451379	TRAPPC12	1378	4
1	110466111	0.001091703	CSF1	1374	3
7	33185887	0.002900653	BBS9	1379	7
9	135974129	0.001454545	RALGDS	1375	4
11	77775297	0.000365764	THRSP	1367	1
10	23481616	0.001090116	PTF1A	1376	2
17	73096477	0.001090116	SLC16A5	1376	3
2	102988564	0.001093294	IL18R1	1372	3
16	75339063	0.001450326	CFDP1	1379	3
12	72265902	0.001814224	TBC1D15	1378	5
17	10204943	0.00617284	MYH13	1377	16
6	30919948	0.001087745	DPCR1	1379	3
4	146601470	0.001106195	C4orf51	1356	3
1	120166520	0.001109467	ZNF697	1352	3
1	85736406	0.000362845	BCL10	1378	1
4	164393220	0.002947679	TKTL2	1357	7
7	45141645	0.001090116	TBRG4	1376	3
11	47187035	0.001098901	ARFGAP2	1365	3
19	51501069	0.001092498	KLK8	1373	3
9	115567128	0.000726744	SNX30	1376	2
22	36897375	0.000727802	FOXRED2	1374	2
19	51507097	0.000364697	KLK9	1371	1
11	66055553	0.00109569	YIF1A	1369	3
1	46685702	0.001114413	LURAP1	1346	1
12	120650326	0.002588757	PXN	1352	5
5	145252269	0.000363108	GRXCR2	1377	1
10	73826790	0.000735835	SPOCK2	1359	2
3	108273305	0.003263234	KIAA1524	1379	7
8	145947768	0.001842299	ZNF251	1357	4
3	129177481	0.002539913	IFT122	1378	6
9	135772900	0.000726216	TSC1	1377	2
6	110736713	0.000364166	DDO	1373	1
3	160395370	0.000726744	ARL14	1376	2
15	40396433	0.001096491	BMF	1368	2
1	186292840	0.007976795	TPR	1379	19
12	6804596	0.000371747	PIANP	1345	1
16	30567113	0.001102131	ZNF764	1361	3

19	14217573	0.000365497	PRKACA	1368	1
3	52011974	0.001089325	ABHD14A	1377	3
6	30619233	0.000374251	C6orf136	1336	1
17	79673994	0.001092498	SLC25A10	1373	3
6	10725199	0.001088534	TMEM14C	1378	3
2	239344456	0.001109467	ASB1	1352	3
19	48919367	0.001097293	GRIN2D	1367	3
1	94336279	0.002581121	DNTTIP2	1356	7
12	55968427	0.001094092	OR2AP1	1371	3
11	35222734	0.000727273	CD44	1375	2
17	39872102	0.000364964	GAST	1370	1
7	149172458	0.000747943	ZNF746	1337	2
1	161275721	0.001091703	MPZ	1374	3
7	66410200	0.00036523	TMEM248	1369	1
9	138236201	0.000740741	C9orf62	1350	2
2	23907296	0.001477105	KLHL29	1354	4
12	120802533	0.001094092	MSI1	1371	1
6	3089838	0.001456664	RIPK1	1373	3
6	30521234	0.001088534	GNL1	1378	3
20	57876556	0.001090909	EDN3	1375	3
6	112671175	0.001450326	RFPL4B	1379	4
18	61564979	0.001453488	SERPINB2	1376	3
2	99980813	0.000727802	EIF5B	1374	2
17	45741630	0.000368189	KPNB1	1358	1
15	68937521	0.00109569	CORO2B	1369	3
17	19451325	0.002538071	SLC47A1	1379	7
5	175815258	0.000367647	NOP16	1360	1
12	27533311	0.001087745	ARNTL2	1379	3
15	75108873	0.001090116	LMAN1L	1376	3
9	86554644	0.001456664	C9orf64	1373	3
11	18505613	0.001090909	TSG101	1375	3
2	37594418	0.001087745	QPCT	1379	3
6	46107929	0.001087745	ENPP4	1379	3
10	17702507	0.001450326	STAM	1379	4
11	2434796	0.001104566	TRPM5	1358	3
3	11070454	0.00036523	SLC6A1	1369	1
11	59863055	0.000364431	MS4A2	1372	1
11	134014151	0.001091703	JAM3	1374	3
9	71628263	0.001132931	PRKACG	1324	2
6	31127421	0.001093294	TCF19	1372	3
7	99751040	0.00109569	LAMTOR4	1369	2
12	12814220	0.001087745	GPR19	1379	3
12	89743047	0.001092498	DUSP6	1373	3
17	19680921	0.001087745	ULK2	1379	3
12	110930934	0.000364697	VPS29	1371	1
6	89790705	0.000363372	PNRC1	1376	1
17	39974642	0.002178649	FKBP10	1377	6
14	24464289	0.000367918	DHRS4L2	1359	1

17	7139309	0.002900653	PHF23	1379	8
17	57725642	0.001088534	CLTC	1378	3
19	12911727	0.000375094	PRDX2	1333	1
19	10602860	0.000366569	KEAP1	1364	1
12	32903717	0.001088534	YARS2	1378	3
4	146770704	0.002902758	ZNF827	1378	8
12	122090633	0.000725689	MORN3	1378	2
10	26994275	0.00109569	PDSS1	1369	2
1	220273978	0.002545455	IARS2	1375	7
7	151800212	0.000726744	GALNT11	1376	2
8	72936051	0.002906977	TRPA1	1376	7
17	80708504	0.000364431	FN3K	1372	1
11	57798455	0.001452433	OR6Q1	1377	3
13	113768185	0.001088534	F7	1378	3
19	14910600	0.001812908	OR7C1	1379	4
6	111888895	0.000729395	TRAF3IP2	1371	2
11	59224674	0.001087745	OR4D6	1379	3
19	57647055	0.001812908	ZIM3	1379	3
16	88713203	0.000378215	CYBA	1322	1
1	206711584	0.001093294	RASSF5	1372	3
6	167570448	0.000733138	GPR31	1364	2
4	9922053	0.000369549	SLC2A9	1353	1
11	6519796	0.005801305	DNHD1	1379	16
1	184680915	0.000727273	EDEM3	1375	2
5	118433752	0.009427121	DMXL1	1379	24
3	49137855	0.001090909	QARS	1375	3
12	110012687	0.000749625	MVK	1334	1
5	137680679	0.001450326	FAM53C	1379	4
3	130095235	0.002949853	COL6A5	1356	8
17	74475072	0.000744602	RHBDF2	1343	2
1	207104891	0.002900653	PIGR	1379	7
1	54649875	0.001108647	CYB5RL	1353	2
2	74725077	0.000378788	LBX2	1320	1
4	2933322	0.001110289	MFSD10	1351	3
17	74076518	0.001087745	ZACN	1379	3
8	82356746	0.001452433	PMP2	1377	2
21	34860691	0.001088534	DNAJC28	1378	3
3	119087238	0.003625816	ARHGAP31	1379	10
4	25334826	0.001089325	ZCCHC4	1377	3
19	41847924	0.000378501	TGFB1	1321	1
4	44705136	0.000371471	GNPDA2	1346	1
4	154624721	0.001090116	TLR2	1376	2
22	36624051	0.001812908	APOL2	1379	5
11	74057868	0.000725163	PGM2L1	1379	2
13	100861637	0.001451379	PCCA	1378	4
17	11881293	0.000725163	ZNF18	1379	2
17	28445108	0.001090909	NSRP1	1375	3
19	55888991	0.001103753	TMEM190	1359	3

9	125922675	0.001089325	STRBP		1377	3
17	1494553	0.001111935	SLC43A2		1349	2
16	66600692	0.001451379	CMTM1		1378	4
2	150438643	0.001093294	MMADHC		1372	3
7	934983	0.001123596	GET4		1335	3
12	6426580	0.000364166	PLEKHG6		1373	1
12	21626491	0.003631082	RECQL		1377	7
14	74951240	0.00036846	NPC2		1357	1
13	39264002	0.001451379	FREM2		1378	4
6	84233927	0.001092498	PRSS35		1373	3
17	47118790	0.001090116	IGF2BP1		1376	3
9	990179	0.000734214	DMRT3		1362	2
3	42734302	0.001087745	HHATL		1379	3
5	158204508	0.000732064	EBF1		1366	2
17	52978252	0.001450326	TOM1L1		1379	4
11	763762	0.001099707	TALDO1		1364	2
9	133729480	0.001815541	ABL1		1377	5
8	94738760	0.000368732	FAM92A1		1356	1
1	158390074	0.000725163	OR10K2		1379	2
1	12779532	0.001088534	AADACL3		1378	3
8	67576619	0.001087745	VCPIP1		1379	3
11	59282524	0.001088534	OR4D9		1378	3
22	38086735	0.000729395	NOL12		1371	2
6	142487447	0.000727273	VTA1		1375	2
1	19027280	0.001103753	PAX7		1359	3
1	111957105	0.001088534	OVGP1		1378	3
7	129770407	0.000363636	KLHDC10		1375	1
22	22314004	0.001456664	TOP3B		1373	4
14	94955956	0.001087745	SERPINA12		1379	3
21	34003813	0.002538071	SYNJ1		1379	7
4	77955661	0.000372024		Sep-11	1344	1
7	99453258	0.000367918	CYP3A43		1359	1
10	118084582	0.001098097	CCDC172		1366	2
20	30584670	0.001098097	XKR7		1366	3
9	135698714	0.000366569	AK8		1364	1
14	24784903	0.001088534	LTB4R		1378	3
3	44776058	0.000726744	ZNF501		1376	2
1	156314391	0.000726216	TSACC		1377	2
1	145415498	0.001090116	HFE2		1376	3
2	203591030	0.001087745	FAM117B		1379	3
17	2228084	0.002900653	TSR1		1379	7
6	99284016	0.000739098	POU3F2		1353	2
6	30608350	0.000738007	ATAT1		1355	2
9	98209210	0.003263234	PTCH1		1379	8
16	72050926	0.000728332	DHODH		1373	2
6	44921153	0.001087745	SUPT3H		1379	3
6	150240241	0.001130369	RAET1G		1327	3
7	8790666	0.001106195	NXPH1		1356	3

2	174223564	0.001089325	CDCA7	1377	3
10	5246380	0.000364697	AKR1C4	1371	1
7	116340102	0.002180233	MET	1376	5
7	48237958	0.016224189	ABCA13	1356	42
17	30348400	0.001814224	LRRC37B	1378	2
6	53989557	0.000734214	MLIP	1362	1
5	169291368	0.002581121	FAM196B	1356	6
19	49119426	0.000753012	RPL18	1328	2
1	217688195	0.001087745	GPATCH2	1379	3
1	37962324	0.000727802	MEAF6	1374	2
14	20711032	0.001088534	OR11H4	1378	3
15	51975422	0.001087745	SCG3	1379	3
1	75175790	0.001451379	CRYZ	1378	4
2	231865139	0.001111935	SPATA3	1349	2
1	247836108	0.000728332	OR13G1	1373	2
1	226426782	0.001092498	LIN9	1373	3
13	47269088	0.000725163	LRCH1	1379	2
10	78084193	0.000366032	C10orf11	1366	1
6	35706171	0.001088534	ARMC12	1378	3
22	24177116	0.001111111	DERL3	1350	2
9	116810204	0.002212389	ZNF618	1356	6
19	17449946	0.000728863	GTPBP3	1372	2
14	104038029	0.001087745	APOPT1	1379	3
21	38845001	0.000369822	DYRK1A	1352	1
5	95011195	0.000364964	SPATA9	1370	1
5	35072826	0.000366032	PRLR	1366	1
1	33361534	0.001101322	TMEM54	1362	2
3	41723277	0.003263234	ULK4	1379	9
16	2763682	0.001104566	PRSS27	1358	2
11	6789758	0.001089325	OR2AG2	1377	3
20	4768871	0.000373134	RASSF2	1340	1
11	56409131	0.000364166	OR5AP2	1373	1
12	100613827	0.000727273	ACTR6	1375	2
11	118344507	0.001088534	KMT2A	1378	3
5	101794094	0.001087745	SLCO6A1	1379	3
7	144075885	0.000373972	ARHGEF5	1337	1
14	21458504	0.000364431	METTL17	1372	1
15	80743275	0.001458789	ARNT2	1371	4
11	59406537	0.001108647	PATL1	1353	2
6	25969631	0.000727802	TRIM38	1374	2
2	176964624	0.002583026	HOXD12	1355	7
3	4726834	0.001107011	ITPR1	1355	3
19	33892707	0.00075188	PEPD	1330	2
3	51475801	0.000737463	VPRBP	1356	2
3	33416785	0.000366838	FBXL2	1363	1
19	58549434	0.001094092	ZSCAN1	1371	3
3	132153426	0.008339376	DNAJC13	1379	19
13	21957114	0.000371195	ZDHHC20	1347	1

9	132566592	0.001088534	TOR1B	1378	3
2	37487374	0.000725163	PRKD3	1379	2
2	70923393	0.000369004	ADD2	1355	1
1	205033860	0.001094092	CNTN2	1371	2
1	33945145	0.002900653	ZSCAN20	1379	7
3	15467820	0.000363372	METTL6	1376	1
1	111730232	0.001089325	DENND2D	1377	2
4	120488247	0.001087745	PDE5A	1379	3
5	137485455	0.001087745	BRD8	1379	3
7	1586659	0.001110289	TMEM184A	1351	3
10	13264153	0.000726216	UCMA	1377	2
16	4743998	0.001104566	NUDT16L1	1358	3
12	104387193	0.001093294	GLT8D2	1372	3
4	88234973	0.001090116	HSD17B13	1376	3
21	44839315	0.000379363	SIK1	1318	1
6	20402729	0.000372301	E2F3	1343	1
16	86601222	0.001452433	FOXC2	1377	4
17	27251037	0.000369276	PHF12	1354	1
7	128413820	0.000729395	OPN1SW	1371	2
20	18296154	0.000726216	ZNF133	1377	2
1	157738202	0.000725689	FCRL2	1378	2
4	119613188	0.000725163	METTL14	1379	2
1	167341244	0.003263234	POU2F1	1379	8
8	100026078	0.009789703	VPS13B	1379	26
2	201303899	0.000738552	SPATS2L	1354	2
20	1210555	0.001109467	RAD21L1	1352	3
7	4917331	0.001090909	RADIL	1375	3
17	39680651	0.00109569	KRT19	1369	1
19	57839567	0.001087745	ZNF543	1379	3
2	108921995	0.001090909	SULT1C2	1375	1
6	29054490	0.000730994	OR2B3	1368	2
7	6624671	0.001088534	ZDHHC4	1378	3
15	83791532	0.000729395	TM6SF1	1371	2
17	41925976	0.000725689	CD300LG	1378	2
4	154709661	0.001106195	SFRP2	1356	3
1	197021899	0.000735294	F13B	1360	2
3	170586101	0.000370096	RPL22L1	1351	1
19	10401968	0.002543605	ICAM5	1376	7
9	131038503	0.000725163	SWI5	1379	2
2	231937111	0.001090909	PSMD1	1375	3
15	76632725	0.000752445	ISL2	1329	2
7	27135183	0.000364431	HOXA1	1372	1
6	88775955	0.001090116	SPACA1	1376	3
20	43835713	0.000725163	SEMG1	1379	2
1	111661435	0.001090909	DRAM2	1375	3
10	75016153	0.002178649	TTC18	1377	6
17	72877286	0.000752445	FADS6	1329	2
19	51559942	0.001090116	KLK13	1376	3

7	98935843	0.000378215	ARPC1A	1322	1
3	45745010	0.001450326	SACM1L	1379	4
4	48503734	0.008339376	FRYL	1379	20
16	78148893	0.000726216	WWOX	1377	2
14	105716024	0.001088534	BTBD6	1378	3
6	52131487	0.002900653	MCM3	1379	7
1	165638533	0.001089325	ALDH9A1	1377	3
2	75720491	0.000372856	EVA1A	1341	1
6	26204882	0.001090116	HIST1H4E	1376	3
15	45884359	0.000726216	BLOC1S6	1377	2
11	111385561	0.001091703	C11orf88	1374	3
9	140248816	0.000373134	EXD3	1340	1
4	74863922	0.000749064	CXCL5	1335	2
7	128355607	0.000729395	FAM71F1	1371	2
12	113531496	0.001097293	DTX1	1367	2
19	55525853	0.001090116	GP6	1376	3
1	115600181	0.001451379	TSPAN2	1378	4
7	6049022	0.001092498	AIMP2	1373	3
20	62162155	0.002549162	PTK6	1373	5
22	45718283	0.000725689	FAM118A	1378	2
11	64004977	0.000369276	VEGFB	1354	1
5	176765573	0.000369549	LMAN2	1353	1
6	31940181	0.001088534	STK19	1378	3
20	32660068	0.001094092	RALY	1371	3
5	159344165	0.000727802	ADRA1B	1374	2
7	150731433	0.001090909	ABCB8	1375	3
12	1882074	0.000727273	ADIPOR2	1375	2
17	38447312	0.002900653	CDC6	1379	8
11	60695278	0.000739098	TMEM132A	1353	2
19	52496377	0.001088534	ZNF615	1378	3
7	27203422	0.000727273	HOXA9	1375	2
3	121563339	0.001453488	EAF2	1376	4
12	58340820	0.000725689	XRCC6BP1	1378	2
22	46656486	0.001495886	PKDREJ	1337	4
8	68931882	0.003263234	PREX2	1379	9
17	56052153	0.000367647	VEZF1	1360	1
6	27833397	0.000372856	HIST1H2AL	1341	1
19	12758301	0.001090116	MAN2B1	1376	3
6	30857094	0.003263234	DDR1	1379	9
8	90921823	0.001089325	OSGIN2	1377	3
20	23334704	0.000363901	NXT1	1374	1
10	132896582	0.001110289	TCERG1L	1351	3
20	44259538	0.000363108	WFDC10A	1377	1
8	145580143	0.00363901	FBXL6	1374	8
19	44050851	0.000728332	XRCC1	1373	2
9	126132429	0.001098097	CRB2	1366	3
8	72755785	0.000378788	RP11-383H13.1	1320	1
9	131586152	0.001088534	C9orf114	1378	3

1	184041371	0.000364166	TSEN15	1373	1
2	153591526	0.000726216	ARL6IP6	1377	2
4	142643123	0.000729395	IL15	1371	2
8	95658501	0.000738007	ESRP1	1355	2
19	5896997	0.000367918	NDUFA11	1359	1
1	236389990	0.000725163	ERO1LB	1379	2
11	85593641	0.000726216	CCDC83	1377	2
19	54662189	0.000728332	LENG1	1373	2
8	6793663	0.000362582	DEFA4	1379	1
6	119623168	0.001090909	MAN1A1	1375	3
2	137814157	0.008480826	THSD7B	1356	20
19	13059916	0.000728332	RAD23A	1373	2
9	19119709	0.001450326	PLIN2	1379	4
2	74655451	0.001088534	RTKN	1378	3
9	111617299	0.001459854	ACTL7B	1370	4
6	42071611	0.000379939	C6orf132	1316	1
7	134851378	0.001089325	C7orf49	1377	3
4	676638	0.000738007	MFSD7	1355	2
13	98865632	0.003628447	FARP1	1378	9
3	39942339	0.000726216	MYRIP	1377	2
5	40934477	0.002212389	C7	1356	6
17	45916989	0.001455604	SCRN2	1374	4
2	220439925	0.000729395	INHA	1371	2
8	87498747	0.001453488	RMDN1	1376	3
19	51159497	0.000373413	C19orf81	1339	1
9	130648808	0.001466276	ST6GALNAC6	1364	4
9	97209210	0.001451379	HIATL1	1378	4
8	54682273	0.000363108	ATP6V1H	1377	1
19	2733204	0.001454545	SLC39A3	1375	3
5	109110638	0.001089325	MAN2A1	1377	3
19	35434564	0.002188184	ZNF30	1371	6
17	47788801	0.000377074	FAM117A	1326	1
17	37826236	0.000757002	PNMT	1321	2
1	7907835	0.000726744	UTS2	1376	2
7	94164635	0.000727802	CASD1	1374	2
10	118969418	0.001450326	KCNK18	1379	4
9	125746905	0.001812908	RABGAP1	1379	4
14	23709615	0.001106195	C14orf164	1356	3
4	6042389	0.001096491	JAKMIP1	1368	3
1	227078986	0.000373972	PSEN2	1337	1
3	98188497	0.001091703	OR5K1	1374	3
12	70003916	0.000728332	LRRC10	1373	2
3	113172369	0.002900653	SPICE1	1379	8
11	64037762	0.000370096	BAD	1351	1
22	41969721	0.000368732	CSDC2	1356	1
7	20668453	0.003263234	ABCB5	1379	7
14	35592977	0.000727273	KIAA0391	1375	2
15	74281129	0.000734214	STOML1	1362	2

2	219854987	0.001090909	CRYBA2	1375	3
15	43244638	0.003625816	UBR1	1379	9
3	63999160	0.000725689	PSMD6	1378	2
19	48836478	0.00110538	TMEM143	1357	2
12	68696507	0.003625816	MDM1	1379	10
2	79312671	0.000730994	REG1B	1368	2
22	41305153	0.000363636	XPNPEP3	1375	1
2	207406798	0.001088534	ADAM23	1378	3
2	107459730	0.000381098	ST6GAL2	1312	1
22	21988354	0.001097293	CCDC116	1367	3
16	56396889	0.001111935	AMFR	1349	2
7	128040940	0.000727802	IMPDH1	1374	2
12	57135289	0.001107011	PRIM1	1355	3
15	90431773	0.000379075	AP3S2	1319	1
10	54074238	0.000729395	DKK1	1371	2
1	154479765	0.000728332	TDRD10	1373	2
11	62434146	0.000365764	METTL12	1367	1
17	685688	0.002178649	RNMTL1	1377	6
3	114014433	0.001090909	TIGIT	1375	3
10	1118112	0.001451379	WDR37	1378	4
22	38468511	0.000736377	PICK1	1358	2
6	137322952	0.001087745	IL20RA	1379	3
4	139993098	0.000727273	ELF2	1375	2
4	76580429	0.000365764	G3BP2	1367	1
4	186231909	0.001090116	SNX25	1376	3
6	31829066	0.000726744	NEU1	1376	2
7	30694684	0.00146092	CRHR2	1369	3
6	44320463	0.000732601	SPATS1	1365	2
19	15551318	0.000371471	WIZ	1346	1
12	52910965	0.001088534	KRT5	1378	3
19	2834679	0.000363636	ZNF554	1375	1
12	27787996	0.000729927	PPFIBP1	1370	2
10	22826147	0.001087745	PIP4K2A	1379	3
16	69355006	0.00037092	VPS4A	1348	1
1	180775237	0.000725689	XPR1	1378	2
12	86373639	0.000362845	MGAT4C	1378	1
1	22307584	0.001092498	CELA3B	1373	2
11	26730905	0.000369276	SLC5A12	1354	1
4	40351035	0.00075358	CHRNA9	1327	2
5	68463756	0.001088534	CCNB1	1378	3
19	10503833	0.001097293	CDC37	1367	2
3	14170910	0.001088534	TMEM43	1378	3
1	19669347	0.00073046	CAPZB	1369	2
17	62574695	0.001089325	SMURF2	1377	3
14	55423895	0.001087745	WDHD1	1379	3
12	52822406	0.001088534	KRT75	1378	3
7	75513099	0.001090116	RHBDD2	1376	3
3	130733065	0.001087745	ASTE1	1379	3

7	92887524	0.001091703	CCDC132	1374	3
2	214162005	0.001090909	SPAG16	1375	3
3	53852138	0.000377358	CHDH	1325	1
12	8758005	0.000730994	AICDA	1368	2
17	3119570	0.000725689	OR1A1	1378	2
12	55820095	0.001087745	OR6C76	1379	3
16	68894138	0.003318584	TANGO6	1356	9
3	100086936	0.001090116	TOMM70A	1376	2
3	51967594	0.000725163	RRP9	1379	2
11	55703107	0.001102131	OR5I1	1361	3
17	27902113	0.002541757	GIT1	1377	7
2	111562900	0.001452433	ACOXL	1377	4
11	71146735	0.000733676	DHCR7	1363	2
9	135942012	0.001098097	CEL	1366	3
19	10398262	0.001824818	ICAM4	1370	2
1	156697208	0.000372578	ISG20L2	1342	1
4	57899417	0.000735835	IGFBP7	1359	2
15	76448985	0.000726744	C15orf27	1376	2
14	74970056	0.003277495	LTBP2	1373	8
12	123983977	0.000737463	RILPL1	1356	2
21	45033775	0.001088534	HSF2BP	1378	3
20	61473410	0.001088534	TCFL5	1378	3
14	70420158	0.000729927	SMOC1	1370	2
17	74308980	0.001089325	PRPSAP1	1377	3
11	124180055	0.001093294	OR8D1	1372	3
6	30072943	0.000725163	TRIM31	1379	2
14	23456669	0.001091703	C14orf93	1374	2
16	77775480	0.001087745	NUDT7	1379	3
4	53751996	0.004713561	SCFD2	1379	9
16	20482896	0.000727273	ACSM2A	1375	1
19	58291157	0.001132075	ZNF586	1325	1
13	28127495	0.001088534	LNX2	1378	3
15	53080983	0.000378501	ONECUT1	1321	1
17	79792479	0.000733138	PPP1R27	1364	2
15	55651825	0.001090909	CCPG1	1375	3
7	2041705	0.001087745	MAD1L1	1379	2
11	64694336	0.000378215	PPP2R5B	1322	1
8	81605259	0.000364697	ZNF704	1371	1
22	36657682	0.000726216	APOL1	1377	2
19	617279	0.000744048	POLRMT	1344	2
3	45134814	0.001089325	CDCP1	1377	3
12	57637606	0.001451379	STAC3	1378	3
4	177114714	0.000725163	SPATA4	1379	2
1	35226872	0.001093294	GJB4	1372	3
11	44286491	0.000744048	ALX4	1344	2
4	108870515	0.000726216	CYP2U1	1377	2
10	17199512	0.000738007	TRDMT1	1355	1
4	110663730	0.002900653	CFI	1379	8

11	102709320	0.001088534	MMP3	1378	3
2	231236337	0.000734754	SP140L	1361	2
10	13323070	0.000726216	PHYH	1377	2
19	52447966	0.001087745	ZNF613	1379	3
17	19283173	0.001451379	MAPK7	1378	3
9	35752055	0.001107829	RGP1	1354	1
1	33480167	0.000738007	AK2	1355	1
12	54367042	0.00073046	HOXC11	1369	2
19	39191313	0.00109569	ACTN4	1369	3
17	45351824	0.001090909	ITGB3	1375	3
11	57564025	0.001106195	CTNND1	1356	3
4	17600097	0.000726744	LAP3	1376	2
8	401293	0.000726744	FBXO25	1376	2
19	57293401	0.000726216	ZIM2	1377	2
2	122516363	0.000364697	TSN	1371	1
20	25394489	0.000367107	GINS1	1362	1
6	27368238	0.000363372	ZNF391	1376	1
1	78383945	0.002911208	NEXN	1374	7
9	139873749	0.000371747	PTGDS	1345	1
5	49723986	0.000725689	EMB	1378	1
19	726152	0.001102941	PALM	1360	3
12	110230463	0.002181818	TRPV4	1375	6
10	75984345	0.000725163	ADK	1379	2
20	42635188	0.001090116	TOX2	1376	3
3	5024738	0.000368732	BHLHE40	1356	1
4	103189101	0.000363636	SLC39A8	1375	1
5	89797744	0.000366032	POLR3G	1366	1
7	151267258	0.000745156	PRKAG2	1342	1
4	110638792	0.000733138	PLA2G12A	1364	2
16	731829	0.001089325	STUB1	1377	3
7	55269025	0.00036846	EGFR	1357	1
11	64938950	0.002283105	SPDYC	1314	1
5	34933976	0.001090909	DNAJC21	1375	3
19	8486737	0.000738552	MARCH2	1354	2
10	103281436	0.001088534	BTRC	1378	3
5	64859241	0.003263234	PPWD1	1379	7
7	150779621	0.000365764	TMUB1	1367	1
5	145719186	0.000367918	POU4F3	1359	1
5	79817828	0.000725689	FAM151B	1378	2
17	8249025	0.000363372	ODF4	1376	1
16	29831050	0.000738552	PAGR1	1354	1
22	29455055	0.001088534	C22orf31	1378	3
17	16467070	0.000363372	ZNF287	1376	1
10	122619783	0.000726216	WDR11	1377	2
3	9948140	0.001090116	IL17RE	1376	3
11	118982245	0.001088534	C2CD2L	1378	3
6	18143888	0.000726216	TPMT	1377	2
1	161196696	0.000725689	TOMM40L	1378	2

17	7480786	0.000732601	EIF4A1	1365	2
1	119466153	0.000728332	TBX15	1373	2
3	135975401	0.002904866	PCCB	1377	8
10	126662234	0.001088534	ZRANB1	1378	3
3	139077976	0.001090909	COPB2	1375	3
1	202864818	0.000726216	KLHL12	1377	2
5	152873527	0.000726744	GRIA1	1376	2
11	114442100	0.001089325	NXPE4	1377	3
22	50356508	0.000377929	PIM3	1323	1
8	22105441	0.000725689	POLR3D	1378	2
7	142880565	0.000739645	TAS2R39	1352	2
11	4903799	0.001087745	OR51T1	1379	2
20	56810418	0.001117735	PPP4R1L	1342	3
9	139835865	0.000732601	FBXW5	1365	2
10	126186669	0.000727273	LHPP	1375	2
1	59922680	0.001088534	FGGY	1378	3
17	2298637	0.001092498	MNT	1373	1
3	129247707	0.001087745	RHO	1379	3
17	80521352	0.001094891	FOXK2	1370	3
2	133402727	0.001089325	GPR39	1377	3
21	32090959	0.000740192	KRTAP21-3	1351	2
8	95897306	0.000368189	CCNE2	1358	1
5	131307316	0.00073046	ACSL6	1369	2
14	65406525	0.000368189	GPX2	1358	1
6	127637603	0.001091703	ECHDC1	1374	3
1	42898849	0.001815541	ZMYND12	1377	4
19	5684850	0.001098901	HSD11B1L	1365	3
11	5624486	0.0003663	TRIM6	1365	1
2	68358399	0.001089325	WDR92	1377	3
10	101950667	0.001089325	CHUK	1377	3
15	80469907	0.000367918	FAH	1359	1
14	21542395	0.003265602	ARHGEF40	1378	9
2	63281266	0.000372856	OTX1	1341	1
1	119576820	0.000729927	WARS2	1370	2
7	115580642	0.000726744	TFEC	1376	1
6	149285597	0.000725689	UST	1378	2
7	16317777	0.001107011	ISPD	1355	3
17	73106603	0.001097293	ARMC7	1367	2
1	94463578	0.007976795	ABCA4	1379	21
2	152698451	0.000739645	CACNB4	1352	2
14	53327096	0.002175489	FERMT2	1379	6
15	59409087	0.000726744	CCNB2	1376	2
19	36230662	0.000729395	IGFLR1	1371	2
11	73686147	0.000369822	UCP2	1352	1
12	47630005	0.000362845	PCED1B	1378	1
11	58919866	0.000725163	FAM111A	1379	2
1	153177344	0.000363636	LELP1	1375	1
2	72360177	0.001459854	CYP26B1	1370	4

19	58004557	0.00181686	ZNF419	1376	5
15	48426458	0.000365764	SLC24A5	1367	1
2	113977731	0.001093294	PAX8	1372	3
12	102470625	0.000742942	NUP37	1346	2
12	79611376	0.000729395	SYT1	1371	2
1	156169669	0.000362845	SLC25A44	1378	1
2	85836139	0.000725689	C2orf68	1378	1
12	110340940	0.000727802	TCHP	1374	2
13	111532073	0.000728863	ANKRD10	1372	2
22	22843381	0.000364166	ZNF280B	1373	1
1	100534117	0.000362582	HIAT1	1379	1
8	21955349	0.004056047	FAM160B2	1356	11
9	99525441	0.000726744	ZNF510	1376	2
16	89704497	0.000372578	DPEP1	1342	1
1	247263855	0.001090116	ZNF669	1376	3
22	39085301	0.000362845	JOSD1	1378	1
4	169145434	0.003628447	DDX60	1378	10
1	42629079	0.001094891	GUCA2A	1370	3
19	47978759	0.000729395	KPTN	1371	2
9	114412175	0.000362845	DNAJC25	1378	1
14	35077343	0.001090116	SNX6	1376	3
2	201857673	0.000365764	FAM126B	1367	1
15	75336781	0.000365497	PPCDC	1368	1
7	122338465	0.000725163	RNF133	1379	2
21	31864226	0.001088534	KRTAP19-3	1378	2
1	171679940	0.000725163	VAMP4	1379	2
17	65026740	0.000726744	CACNG4	1376	2
17	27085307	0.000739645	FAM222B	1352	2
9	72472829	0.001088534	C9orf135	1378	3
1	203188395	0.001088534	CHIT1	1378	3
15	81517936	0.003265602	IL16	1378	9
1	207073703	0.000366569	IL24	1364	1
9	35753171	0.000732064	MSMP	1366	2
3	183963028	0.000738552	ALG3	1354	2
13	113333730	0.000730994	C13orf35	1368	2
2	29436863	0.000733676	ALK	1363	2
4	40245536	0.000367107	RHOH	1362	1
22	43203153	0.000726216	ARFGAP3	1377	2
1	8073626	0.001088534	ERRFI1	1378	3
21	37571476	0.009427121	DOPEY2	1379	22
19	12987097	0.000731529	DNASE2	1367	2
17	57262521	0.000731529	PRR11	1367	2
1	156905847	0.004350979	ARHGEF11	1379	11
18	67231818	0.000726744	DOK6	1376	2
12	13128342	0.000728332	HEBP1	1373	2
12	109526167	0.00073046	ALKBH2	1369	2
3	196541425	0.00037037	PAK2	1350	1
5	150844081	0.001088534	SLC36A1	1378	3

10	50256592	0.001450326	VSTM4	1379	4
2	211158459	0.000369549	MYL1	1353	1
12	130647761	0.002175489	FZD10	1379	6
6	165713917	0.001089325	C6orf118	1377	3
6	43193611	0.000364431	DNPH1	1372	1
21	37510174	0.000726216	CBR3	1377	1
7	150034036	0.001102941	LRRC61	1360	3
17	39316567	0.000372578	KRTAP4-4	1342	1
19	40929408	0.000728863	SERTAD1	1372	2
2	172950707	0.000733138	DLX1	1364	2
11	119212656	0.001096491	MFRP	1368	3
11	67207735	0.000732601	CORO1B	1365	2
8	144620186	0.00182083	ZC3H3	1373	4
19	50394328	0.001458789	IL4I1	1371	4
20	2775069	0.001088534	CPXM1	1378	3
11	6023450	0.001454545	OR56A4	1375	3
12	6753337	0.001450326	ACRBP	1379	3
4	96090531	0.003631082	UNC5C	1377	8
1	182369022	0.000726216	TEDDM1	1377	2
20	32246332	0.000729927	NECAB3	1370	2
3	122259364	0.001087745	PARP9	1379	3
12	112305387	0.001110289	MAPKAPK5	1351	3
5	140021949	0.001087745	TMCO6	1379	3
3	149192684	0.001106195	TM4SF4	1356	3
9	116052769	0.000364697	PRPF4	1371	1
1	89519103	0.001088534	GBP1	1378	3
14	60749949	0.000728863	PPM1A	1372	2
11	118209922	0.000730994	CD3D	1368	1
16	66884534	0.000366032	CA7	1366	1
5	64967742	0.001087745	SGTB	1379	3
4	139106289	0.000727802	SLC7A11	1374	2
12	10225907	0.000732601	CLEC1A	1365	2
7	76871078	0.001450326	CCDC146	1379	4
14	81670244	0.000363636	GTF2A1	1375	1
3	24185137	0.000725163	THRB	1379	2
5	83360596	0.001451379	EDIL3	1378	3
8	38250136	0.001087745	LETM2	1379	3
14	51111637	0.000728332	SAV1	1373	2
9	108425067	0.000372856	TAL2	1341	1
13	25338379	0.003991292	RNF17	1378	11
9	107289091	0.000363108	OR13C4	1377	1
6	29141421	0.000725689	OR2J2	1378	2
17	45008479	0.000733138	GOSR2	1364	2
8	38066537	0.000727273	BAG4	1375	2
17	38061065	0.00036523	GSDMB	1369	1
2	152235876	0.000730994	TNFAIP6	1368	1
1	157803299	0.001090116	CD5L	1376	2
18	21099107	0.000725163	C18orf8	1379	2

3	45807138	0.000727273	SLC6A20	1375	2
17	79991634	0.000380518	RAC3	1314	1
1	150936834	0.001091703	CERS2	1374	3
6	10898247	0.001092498	SYCP2L	1373	3
15	65347547	0.001098901	RASL12	1365	3
15	74240173	0.000363636	LOXL1	1375	1
3	119246646	0.000725163	CD80	1379	2
16	2050159	0.000740741	ZNF598	1350	2
16	31131724	0.000727273	KAT8	1375	1
19	42342132	0.001087745	LYPD4	1379	3
22	45279030	0.001094891	PHF21B	1370	2
6	25799035	0.000725689	SLC17A1	1378	2
17	19246702	0.000749625	B9D1	1334	2
19	48248973	0.001097293	GLTSCR2	1367	3
1	17314703	0.003631082	ATP13A2	1377	8
7	87135293	0.003625816	ABCB1	1379	10
14	58875862	0.000364697	TIMM9	1371	1
19	55665540	0.000727802	TNNI3	1374	2
12	57627640	0.000367107	SHMT2	1362	1
7	138486125	0.001108647	TMEM213	1353	2
17	74383624	0.000376223	SPHK1	1329	1
15	90446487	0.002541757	C15orf38	1377	5
9	131860870	0.000726744	CRAT	1376	2
15	78416081	0.001860119	CIB2	1344	1
10	74128066	0.000739645	MICU1	1352	2
17	38140615	0.001089325	PSMD3	1377	3
20	54972887	0.000726216	CSTF1	1377	2
13	28498549	0.000369549	PDX1	1353	1
4	44637998	0.001111111	YIPF7	1350	3
8	119122328	0.000727802	EXT1	1374	2
1	28206500	0.001088534	THEMIS2	1378	3
6	122720887	0.001090116	HSF2	1376	3
3	142539887	0.001451379	PCOLCE2	1378	3
6	7884649	0.001091703	TXNDC5	1374	1
1	90473203	0.000726744	ZNF326	1376	2
17	74719934	0.001099707	JMJD6	1364	3
2	197641278	0.000727802	GTF3C3	1374	2
11	82561026	0.001088534	PRCP	1378	3
16	3367840	0.000729927	ZNF75A	1370	1
10	98989630	0.001088534	ARHGAP19	1378	3
19	49132134	0.000728332	SPHK2	1373	2
19	42352823	0.001088534	DMRTC2	1378	3
17	9674905	0.000740192	DHRS7C	1351	2
19	36029278	0.001097293	GAPDHS	1367	3
6	31696299	0.000728332	DDAH2	1373	2
5	76028438	0.001087745	F2R	1379	3
10	134004249	0.000729927	DPYSL4	1370	2
16	31097675	0.001096491	PRSS53	1368	3

2	111399344	0.000729395	BUB1	1371	2
17	27889798	0.001090116	ABHD15	1376	3
1	237015832	0.001090909	MTR	1375	3
19	3119331	0.000369276	GNA11	1354	1
14	91928480	0.000727802	SMEK1	1374	2
9	107528727	0.000726744	NIPSNAP3B	1376	2
19	17919041	0.001454545	B3GNT3	1375	3
9	79634643	0.000734754	FOXB2	1361	2
2	219920366	0.00073046	IHH	1369	2
12	6657863	0.000734214	IFFO1	1362	2
16	81685892	0.000740741	CMIP	1350	2
11	67790160	0.000738007	ALDH3B1	1355	1
1	21562348	0.001456664	ECE1	1373	4
6	26285561	0.000725163	HIST1H4H	1379	2
1	16345766	0.000739098	HSPB7	1353	2
6	117923226	0.001088534	GOPC	1378	3
9	4823565	0.000726216	RCL1	1377	2
6	29012444	0.000727273	OR2W1	1375	2
5	2747679	0.001092498	IRX2	1373	3
5	52353914	0.001088534	ITGA2	1378	3
3	37032756	0.000755858	EPM2AIP1	1323	2
12	19615466	0.000371195	AEBP2	1347	1
7	2290511	0.000733676	NUDT1	1363	1
20	60854211	0.000725689	OSBPL2	1378	2
19	36549764	0.003270349	WDR62	1376	9
18	43703265	0.000725689	HAUS1	1378	2
11	129246069	0.000727273	BARX2	1375	2
1	15789307	0.000726744	CELA2A	1376	2
11	63662663	0.000725689	MARK2	1378	2
14	75329622	0.001107011	PROX2	1355	3
4	436244	0.001109467	ZNF721	1352	2
6	32291370	0.000726216	C6orf10	1377	2
1	32669823	0.001092498	CCDC28B	1373	3
18	670782	0.00073692	TYMS	1357	2
10	14890817	0.001093294	HSPA14	1372	3
19	41704405	0.000364964	CYP2S1	1370	1
14	21469532	0.000729395	SLC39A2	1371	2
19	55591060	0.000729927	EPS8L1	1370	2
10	88722394	0.000374251	SNCG	1336	1
11	57106050	0.001089325	P2RX3	1377	3
9	35792577	0.001451379	NPR2	1378	4
10	101997933	0.000727802	CWF19L1	1374	2
11	63883689	0.001103753	FLRT1	1359	3
6	28872254	0.000726216	TRIM27	1377	2
19	45731316	0.001100514	EXOC3L2	1363	3
16	68710353	0.002900653	CDH3	1379	8
1	248756223	0.00074129	OR2T10	1349	2
9	71155606	0.000734754	TMEM252	1361	1

1	158300675	0.000362845	CD1B		1378	1
7	34014318	0.000728332	BMPER		1373	2
14	91633570	0.001090909	C14orf159		1375	3
4	81188321	0.000727273	FGF5		1375	2
1	3386085	0.000729927	ARHGEF16		1370	2
17	72518965	0.000380807	CD300LB		1313	1
13	80911318	0.000736377	SPRY2		1358	2
11	375894	0.000743494	B4GALNT4		1345	2
5	172662013	0.000377074	NKX2-5		1326	1
8	71570054	0.000725163	LACTB2		1379	2
2	68692018	0.000363108	FBXO48		1377	1
11	113285104	0.000734214	DRD2		1362	2
17	7158188	0.000373134	ELP5		1340	1
20	44755329	0.000365497	CD40		1368	1
5	132096957	0.000727273		Sep-08	1375	2
2	27016016	0.000363372	CENPA		1376	1
7	100153322	0.001087745	AGFG2		1379	3
19	549637	0.001103753	GZMM		1359	3
2	86088325	0.000365764	ST3GAL5		1367	1
2	242742811	0.000742942	GAL3ST2		1346	2
7	130295824	0.000738552	COPG2		1354	2
3	71748774	0.000363636	EIF4E3		1375	1
7	135078904	0.001454545	CNOT4		1375	3
2	219825293	0.000364697	CDK5R2		1371	1
13	46917594	0.000762195	KIAA0226L		1312	1
7	128586591	0.00074184	IRF5		1348	2
20	3928906	0.000725689	RNF24		1378	2
3	47543204	0.001093294	ELP6		1372	3
6	88049865	0.000372856	SMIM8		1341	1
18	48331524	0.00036523	MRO		1369	1
17	38028571	0.001087745	ZPBP2		1379	3
21	27269922	0.001088534	APP		1378	3
8	74891019	0.000726216	TMEM70		1377	2
13	31498534	0.000363372	MEDAG		1376	1
8	124516940	0.000363901	FBXO32		1374	1
12	93163879	0.000729395	PLEKHG7		1371	2
19	42507720	0.001094891	GRIK5		1370	3
2	27900746	0.000728332	SLC4A1AP		1373	2
12	49086929	0.002175489	CCNT1		1379	5
3	115394986	0.001096491	GAP43		1368	3
3	186915332	0.000726216	RTP1		1377	2
6	107595340	0.000726216	PDSS2		1377	2
12	70330326	0.001474926	MYRFL		1356	4
16	4563699	0.000366032	CDIP1		1366	1
6	49936553	0.000728863	DEFB113		1372	2
1	196927147	0.000743494	CFHR2		1345	1
6	32085391	0.001100514	ATF6B		1363	3
17	72576151	0.000754148	CD300LD		1326	1

16	55731879	0.000363372	SLC6A2	1376	1
2	95847183	0.0003663	ZNF2	1365	1
5	160757957	0.000725163	GABRB2	1379	2
11	18045467	0.000725689	TPH1	1378	2
1	24201634	0.000372578	CNR2	1342	1
21	45876625	0.000736377	LRRC3	1358	2
16	87445842	0.000727273	ZCCHC14	1375	2
6	110944025	0.000725163	CDK19	1379	2
5	5441254	0.003687316	KIAA0947	1356	10
15	74426155	0.000376223	ISLR2	1329	1
16	1990778	0.001467351	MSRB1	1363	3
11	65360819	0.000729395	KCNK7	1371	2
16	71663396	0.001087745	MARVELD3	1379	3
5	179132764	0.000726744	CANX	1376	2
13	25827980	0.000725689	MTMR6	1378	2
20	45702848	0.000725163	EYA2	1379	2
2	113819749	0.001121076	IL36RN	1338	2
19	1105267	0.000738552	GPX4	1354	2
9	130710500	0.001091703	FAM102A	1374	3
5	145197501	0.001089325	PRELID2	1377	3
12	57910956	0.000363108	DDIT3	1377	1
22	45813704	0.000728332	RIBC2	1373	2
2	84668184	0.00036523	SUCLG1	1369	1
1	24385424	0.007251632	MYOM3	1379	18
3	128753150	0.00037092	EFCC1	1348	1
11	124551320	0.000727273	SPA17	1375	2
1	236306023	0.000726744	GPR137B	1376	2
17	6364864	0.000727802	PITPNM3	1374	2
9	134889785	0.000728863	MED27	1372	2
14	23598867	0.001451379	SLC7A8	1378	4
4	69342069	0.000725163	TMPRSS11E	1379	2
10	27798805	0.000730994	RAB18	1368	2
20	25193983	0.001088534	ENTPD6	1378	3
16	29675254	0.001090116	SPN	1376	2
9	108097860	0.001452433	SLC44A1	1377	3
11	126162385	0.001456664	TIRAP	1373	4
2	220336597	0.001098901	SPEG	1365	3
1	36054101	0.00073046	TFAP2E	1369	2
17	39334070	0.000730994	KRTAP4-2	1368	2
22	37603059	0.003668379	SSTR3	1363	7
16	28618135	0.00073046	SULT1A1	1369	2
8	623391	0.003988397	ERICH1	1379	8
10	5436282	0.000726744	TUBAL3	1376	2
12	51236848	0.000739645	TMPRSS12	1352	2
5	896841	0.000728332	TRIP13	1373	2
17	41142918	0.000726216	RUNDC1	1377	2
3	17052277	0.001088534	PLCL2	1378	3
4	9784658	0.000727273	DRD5	1375	2

3	39144243	0.000372856	GORASP1	1341	1
16	58072216	0.001094092	MMP15	1371	3
10	112837965	0.001088534	ADRA2A	1378	3
19	36038263	0.001103753	TMEM147	1359	2
11	65307073	0.003267974	LTBP3	1377	9
3	50231060	0.00073692	GNAT1	1357	2
19	49473940	0.001091703	GYS1	1374	3
15	82564158	0.001102131	FAM154B	1361	1
10	16870891	0.012690355	CUBN	1379	33
19	9921879	0.000740192	FBXL12	1351	2
7	44089838	0.000726216	DBNL	1377	2
21	46067036	0.001099707	KRTAP10-11	1364	2
20	34129887	0.001088534	ERGIC3	1378	3
15	73996161	0.000733138	CD276	1364	2
8	67925192	0.001451379	PPP1R42	1378	3
11	116701353	0.001088534	APOC3	1378	3
1	162344089	0.000732064	C1orf111	1366	2
3	100274197	0.001089325	TMEM45A	1377	3
13	108518319	0.000731529	FAM155A	1367	2
6	26374570	0.000735835	BTN3A2	1359	1
15	92647652	0.001451379	SLCO3A1	1378	3
4	140439096	0.000729395	SETD7	1371	2
10	104632872	0.000734754	AS3MT	1361	2
19	990939	0.000734754	WDR18	1361	2
2	130948093	0.00036846	MZT2B	1357	1
13	41705585	0.000726744	KBTBD6	1376	2
19	48967889	0.000726216	KCNJ14	1377	2
3	182553872	0.003265602	ATP11B	1378	9
13	32652976	0.00688905	FRY	1379	19
8	62289281	0.000725689	CLVS1	1378	2
15	89424588	0.000732064	HAPLN3	1366	2
2	1094094	0.001481481	SNTG2	1350	4
22	31816311	0.000373972	DRG1	1337	1
19	18468322	0.000734214	PGPEP1	1362	2
22	18609523	0.000728332	TUBA8	1373	2
17	39580480	0.000364166	KRT37	1373	1
7	97484684	0.000725689	ASNS	1378	2
11	57426970	0.000726216	CLP1	1377	2
5	122365011	0.000735835	PPIC	1359	2
20	44533592	0.000730994	PLTP	1368	2
3	50380743	0.000364166	ZMYND10	1373	1
11	88911219	0.001087745	TYR	1379	3
16	69293985	0.000733138	SNTB2	1364	2
5	476198	0.000735835	SLC9A3	1359	2
19	49206365	0.001088534	FUT2	1378	3
9	132400660	0.000729927	ASB6	1370	2
14	23243141	0.001091703	SLC7A7	1374	2
16	28856068	0.000727273	TUFM	1375	2

1	45250410	0.000732064	BEST4	1366	2
4	146073712	0.001087745	OTUD4	1379	3
14	54416836	0.000726744	BMP4	1376	2
4	264901	0.001109467	ZNF732	1352	2
5	50683380	0.001099707	ISL1	1364	2
17	1401384	0.001090116	INPP5K	1376	3
13	49842067	0.000726744	CDADC1	1376	2
13	72131173	0.000726216	DACH1	1377	2
9	125673422	0.000363636	ZBTB6	1375	1
7	21945159	0.001089325	CDCA7L	1377	3
10	91066243	0.001089325	IFIT2	1377	3
9	79253191	0.008701958	PRUNE2	1379	24
17	40173636	0.000726744	NKIRAS2	1376	2
6	163836232	0.001087745	QKI	1379	3
12	3931108	0.000729927	PARP11	1370	2
1	25880524	0.001100514	LDLRAP1	1363	3
1	35223142	0.000729395	GJB5	1371	2
4	78532180	0.000362845	CXCL13	1378	1
10	21414996	0.000725689	C10orf113	1378	2
7	116937714	0.000727802	WNT2	1374	2
17	46939649	0.000725689	CALCOCO2	1378	2
16	88871942	0.000374251	CDT1	1336	1
9	34622062	0.000726216	ARID3C	1377	2
19	12243826	0.000725163	ZNF20	1379	2
13	20797051	0.000745712	GJB6	1341	2
21	33340580	0.000726216	HUNK	1377	2
19	54677878	0.000730994	MBOAT7	1368	2
1	45966079	0.001087745	MMACHC	1379	3
8	54764576	0.001450326	RGS20	1379	3
6	33384529	0.002900653	CUTA	1379	7
19	38873893	0.00037679	PSMD8	1327	1
12	6933709	0.000728863	GPR162	1372	2
15	67358584	0.000733676	SMAD3	1363	2
5	74101034	0.000725689	FAM169A	1378	2
19	42914737	0.000375657	LIPE	1331	1
7	102107924	0.001104566	LRWD1	1358	3
21	41032610	0.001090909	B3GALT5	1375	3
3	9798462	0.000726216	OGG1	1377	2
11	56510554	0.000729395	OR9G4	1371	2
1	94964357	0.000725689	ABCD3	1378	2
8	133806759	0.001091703	PHF20L1	1374	2
17	45689913	0.000739098	NPEPPS	1353	2
4	155505314	0.001087745	FGA	1379	3
7	43918139	0.000750188	URGCP	1333	2
17	79634823	0.000731529	CCDC137	1367	2
11	117050105	0.000725689	SIDT2	1378	2
1	3418457	0.000740741	MEGF6	1350	2
13	79911298	0.000728332	RBM26	1373	2

11	20177845	0.000734754	DBX1	1361	2
10	74628484	0.000726216	MCU	1377	2
4	144109041	0.000727802	USP38	1374	2
3	121822545	0.000727802	CD86	1374	1
10	105902049	0.002175489	WDR96	1379	6
1	11847928	0.000371747	C1orf167	1345	1
22	32546328	0.000726744	C22orf42	1376	2
18	31599361	0.000726744	NOL4	1376	1
6	27925212	0.001087745	OR2B6	1379	3
12	10464164	0.000363372	KLRD1	1376	1
11	5510123	0.000725163	OR52D1	1379	2
6	123104898	0.000363372	FABP7	1376	1
8	53084454	0.000725163	ST18	1379	2
6	31895837	0.003625816	CFB	1379	10
12	49458906	0.000731529	RHEBL1	1367	2
15	74703909	0.001092498	SEMA7A	1373	3
4	101982274	0.000364166	PPP3CA	1373	1
20	43580566	0.000365497	TOMM34	1368	1
9	135464748	0.000746269	BARHL1	1340	2
7	141618796	0.000725689	OR9A4	1378	2
19	48480677	0.00074184	BSPH1	1348	1
1	45155379	0.001107011	C1orf228	1355	3
19	54872558	0.000728332	LAIR1	1373	2
20	24995811	0.000734214	ACSS1	1362	2
15	75183907	0.000725163	MPI	1379	2
11	128781616	0.000726216	KCNJ5	1377	2
1	84948634	0.000725163	RPF1	1379	2
19	10335043	0.000374251	S1PR2	1336	1
7	128804319	0.000725689	TSPAN33	1378	2
5	140229962	0.000736377	PCDHA9	1358	2
12	50232295	0.001098901	BCDIN3D	1365	3
19	58232208	0.000726216	ZNF671	1377	2
11	133789706	0.004065041	IGSF9B	1353	11
1	116666957	0.000728863	MAB21L3	1372	2
5	93120178	0.000725163	FAM172A	1379	2
1	26131655	0.001452433	SEPN1	1377	4
1	31898231	0.000726744	SERINC2	1376	2
16	3165479	0.001098097	ZNF205	1366	3
6	109314034	0.001087745	SESN1	1379	3
2	27151168	0.000727273	DPYSL5	1375	2
11	45672268	0.000745156	CHST1	1342	2
8	41122765	0.001090909	SFRP1	1375	3
17	30814949	0.000735835	CDK5R1	1359	1
17	78796098	0.000727802	RPTOR	1374	2
6	83891643	0.000727802	PGM3	1374	2
3	123051430	0.000371747	ADCY5	1345	1
19	56104108	0.000372856	FIZ1	1341	1
3	126135183	0.000729927	CCDC37	1370	2

11	57958168	0.001088534	OR9Q2	1378	3
20	43034852	0.000377929	HNF4A	1323	1
21	30380125	0.001091703	RWDD2B	1374	3
9	2635536	0.003263234	VLDLR	1379	9
22	20130736	0.000743494	ZDHHC8	1345	2
12	56548600	0.000726216	MYL6B	1377	2
8	16921674	0.001088534	MICU3	1378	3
17	46628051	0.000739645	HOXB3	1352	2
13	44456372	0.000733676	LACC1	1363	2
1	110116386	0.000727273	GNAI3	1375	2
11	67412609	0.001094891	ACY3	1370	3
17	21146662	0.001470588	C17orf103	1360	4
5	89913722	0.021755162	GPR98	1356	52
21	45556012	0.000732601	C21orf33	1365	2
6	26598166	0.000380518	ABT1	1314	1
21	31802621	0.000725163	KRTAP13-4	1379	1
19	58988727	0.000737463	ZNF446	1356	2
11	86017338	0.000366838	C11orf73	1363	1
20	16729613	0.000367377	OTOR	1361	1
4	6325199	0.001452433	PPP2R2C	1377	4
9	36353209	0.00036846	RNF38	1357	1
20	30475044	0.000728332	TTLL9	1373	2
10	89544331	0.000733138	ATAD1	1364	2
17	56572496	0.000733138	MTMR4	1364	2
7	111926986	0.000727273	ZNF277	1375	2
19	35523581	0.000729927	SCN1B	1370	2
14	23567002	0.000725689	C14orf119	1378	2
18	55833072	0.003318584	NEDD4L	1356	8
6	33172449	0.001087745	HSD17B8	1379	3
8	108509493	0.000364431	ANGPT1	1372	1
3	167413495	0.000726216	PDCD10	1377	2
14	96706755	0.000727802	BDKRB2	1374	2
17	54912382	0.000725163	DGKE	1379	2
16	30380550	0.001113586	TBC1D10B	1347	3
2	37096800	0.000725689	STRN	1378	2
3	111710251	0.000364166	ABHD10	1373	1
17	27938958	0.000366032	ANKRD13B	1366	1
3	101283830	0.000728863	TRMT10C	1372	2
1	45340483	0.001089325	EIF2B3	1377	3
2	234229278	0.000742942	SAG	1346	2
9	27284871	0.000725689	EQTN	1378	2
1	245165487	0.001094891	EFCAB2	1370	3
3	126915988	0.000739098	C3orf56	1353	2
2	49217708	0.000731529	FSHR	1367	2
1	226127263	0.000374251	LEFTY2	1336	1
17	37922503	0.000727273	IKZF3	1375	2
13	97986578	0.00036523	MBNL2	1369	1
4	177608368	0.000728332	VEGFC	1373	2

2	237103529	0.001109467	ASB18	1352	3
2	44617418	0.000726216	CAMKMT	1377	2
16	56701902	0.0003663	MT1G	1365	1
4	88766236	0.001090116	MEPE	1376	3
11	62382165	0.000735294	ROM1	1360	2
11	64535083	0.001096491	SF1	1368	3
22	29141921	0.000725689	HSCB	1378	2
8	143694672	0.000732601	ARC	1365	2
5	146752780	0.000738007	STK32A	1355	2
7	92158944	0.001089325	RBM48	1377	3
16	83941780	0.001101322	MLYCD	1362	2
11	94917641	0.000725163	SESN3	1379	2
2	113885316	0.00036523	IL1RN	1369	1
19	53668314	0.000726216	ZNF665	1377	2
2	168921861	0.000726216	STK39	1377	2
7	65425968	0.000726216	GUSB	1377	2
11	67190972	0.000739098	CARNS1	1353	2
3	69134235	0.000730994	ARL6IP5	1368	2
17	79478273	0.001089325	ACTG1	1377	3
12	12618589	0.000727802	LOH12CR1	1374	2
22	50301388	0.000729395	ALG12	1371	2
15	102346082	0.000725163	OR4F6	1379	2
19	3759900	0.000735835	APBA3	1359	2
7	2740351	0.000729927	AMZ1	1370	2
5	10280588	0.000362582	CMBL	1379	1
9	107266936	0.001087745	OR13F1	1379	3
2	106497862	0.000735294	NCK2	1360	2
3	188124024	0.000725689	LPP	1378	2
1	37325557	0.000733138	GRIK3	1364	2
22	38617508	0.000738552	TMEM184B	1354	2
4	185683606	0.000727273	ACSL1	1375	2
15	76248273	0.000727273	NRG4	1375	2
1	53990554	0.000733138	GLIS1	1364	2
4	169928804	0.000366569	CBR4	1364	1
20	62904643	0.001090909	PCMTD2	1375	2
17	3628655	0.000725163	GSG2	1379	2
3	108541778	0.000725163	TRAT1	1379	2
11	10503706	0.001087745	AMPD3	1379	3
16	68395608	0.002915452	SMPD3	1372	7
1	20140997	0.000369549	RNF186	1353	1
15	27193307	0.000371471	GABRA5	1346	1
2	27360580	0.000371195	C2orf53	1347	1
15	41165398	0.000727273	RHOV	1375	2
4	52729630	0.000725689	DCUN1D4	1378	2
17	46262086	0.000726744	SKAP1	1376	2
4	88356356	0.001089325	NUDT9	1377	3
2	27423378	0.000728332	SLC5A6	1373	2
11	4621574	0.001450326	TRIM68	1379	4

9	129642660	0.000738552	ZBTB34	1354	2
20	10603752	0.001090909	SLX4IP	1375	2
21	33949127	0.001087745	TCP10L	1379	2
19	58849985	0.000725689	ZSCAN22	1378	2
10	90676444	0.001090909	STAMBPL1	1375	3
8	67748176	0.000725689	SGK3	1378	2
16	20749086	0.000725689	THUMPD1	1378	2
12	53646701	0.002538071	MFSD5	1379	7
19	39116737	0.000728863	EIF3K	1372	2
19	43920325	0.001092498	TEX101	1373	2
3	2777910	0.004350979	CNTN4	1379	10
7	69583136	0.003263234	AUTS2	1379	9
1	21072099	0.000727273	HP1BP3	1375	2
2	54853183	0.003267974	SPTBN1	1377	9
11	110035166	0.001107829	ZC3H12C	1354	2
1	155257685	0.000728332	HCN3	1373	2
1	52871427	0.000376223	PRPF38A	1329	1
12	96359488	0.001087745	AMDHD1	1379	3
10	124671238	0.000726744	FAM24A	1376	2
3	112546282	0.000746269	CD200R1L	1340	2
11	70052258	0.000732064	FADD	1366	2
3	138669133	0.000378501	C3orf72	1321	1
4	144920562	0.001106195	GYPB	1356	2
12	132625910	0.000735294	DDX51	1360	2
2	242097918	0.000363108	PPP1R7	1377	1
1	201008990	0.001815541	CACNA1S	1377	5
6	18399767	0.000728332	RNF144B	1373	2
12	104192447	0.001455604	NT5DC3	1374	2
6	2779651	0.001090909	WRNIP1	1375	3
1	207039331	0.001088534	IL20	1378	2
19	47941228	0.000727273	SLC8A2	1375	2
11	58347067	0.000727273	ZFP91	1375	2
1	220232313	0.001458789	BPNT1	1371	2
3	58639426	0.000738552	FAM3D	1354	2
8	133759343	0.000727802	TMEM71	1374	2
11	126208182	0.000725689	DCPS	1378	2
15	41099569	0.001087745	ZFYVE19	1379	3
10	17641307	0.00073046	PTPLA	1369	2
14	59965516	0.00074239	JKAMP	1347	2
10	12833195	0.000725163	CAMK1D	1379	2
13	22084197	0.000732064	MICU2	1366	2
5	40764715	0.000727273	PRKAA1	1375	2
4	100203753	0.000729395	ADH1A	1371	2
13	31326242	0.000725689	ALOX5AP	1378	2
6	122775049	0.000725689	SERINC1	1378	2
11	57145296	0.000725689	PRG3	1378	2
10	90984848	0.000726216	LIPA	1377	2
12	10959207	0.000728332	TAS2R8	1373	1

11	6632163	0.000727273	TAF10	1375	2
11	130058436	0.001088534	ST14	1378	3
2	179699099	0.003625816	CCDC141	1379	10
19	50086809	0.000726744	PRRG2	1376	2
8	144652204	0.000740192	MROH6	1351	2
22	23404094	0.001091703	RTDR1	1374	3
11	558208	0.000742942	C11orf35	1346	2
8	143822587	0.00110538	SLURP1	1357	3
6	166844093	0.000731529	RPS6KA2	1367	2
17	48355102	0.000725689	TMEM92	1378	2
1	32739982	0.001815541	LCK	1377	4
21	34166168	0.000726216	C21orf62	1377	2
9	77614773	0.000725689	C9orf41	1378	2
17	42085890	0.000364431	NAGS	1372	1
5	89821027	0.000726216	LYSMD3	1377	2
1	46083225	0.000733138	NASP	1364	2
11	35287038	0.000725163	SLC1A2	1379	2
1	153935073	0.000749625	SLC39A1	1334	2
1	74941317	0.00074239	LRRC53	1347	2
3	15057707	0.000729927	NR2C2	1370	2
19	1271560	0.000732064	CIRBP	1366	2
1	60312832	0.000729395	HOOK1	1371	2
14	61113081	0.001097293	SIX1	1367	3
19	52714705	0.000725689	PPP2R1A	1378	2
14	103363668	0.000733676	TRAF3	1363	2
10	5541122	0.000745712	CALML5	1341	2
11	36514106	0.000727802	TRAF6	1374	2
3	160960349	0.000732064	NMD3	1366	2
2	203680674	0.000725163	ICA1L	1379	2
4	5981987	0.000731529	C4orf50	1367	2
6	44198591	0.000727273	SLC29A1	1375	2
15	90210238	0.000737463	PLIN1	1356	2
16	67070624	0.000727802	CBFB	1374	2
8	16850603	0.001087745	FGF20	1379	2
17	36708168	0.000369276	SRCIN1	1354	1
9	112642903	0.000726744	PALM2	1376	2
7	99311128	0.001097293	CYP3A7	1367	2
11	61719369	0.000725689	BEST1	1378	2
9	133780688	0.00074239	FIBCD1	1347	2
19	45971917	0.000732601	FOSB	1365	2
3	49044942	0.003625816	WDR6	1379	9
11	47657099	0.000726216	MTCH2	1377	2
19	41749535	0.000729927	AXL	1370	2
13	99907563	0.000732601	GPR18	1365	1
19	50360296	0.000730994	PTOV1	1368	2
9	107367247	0.000726216	OR13C2	1377	2
16	50659411	0.000728332	NKD1	1373	2
19	12691378	0.000746269	ZNF490	1340	2

12	48359995	0.001090909	TMEM106C	1375	3
6	27879238	0.000729395	OR2B2	1371	2
4	70599139	0.001088534	SULT1B1	1378	3
17	61514793	0.00037037	CYB561	1350	1
14	104559922	0.000745712	ASPG	1341	2
17	59485577	0.00073046	TBX2	1369	2
12	64858199	0.000726744	TBK1	1376	2
4	84508424	0.000725689	AGPAT9	1378	2
1	1244959	0.000729927	PUSL1	1370	2
2	48808013	0.003988397	STON1	1379	9
5	143540113	0.000727802	YIPF5	1374	2
2	118582184	0.000732601	DDX18	1365	2
15	67813783	0.000738552	C15orf61	1354	2
19	2790507	0.002180233	THOP1	1376	6
16	2328445	0.00255848	ABCA3	1368	7
22	38474468	0.000734214	SLC16A8	1362	2
17	37101221	0.000730994	FBXO47	1368	1
1	159273716	0.000727802	FCER1A	1374	2
4	164450087	0.000725689	MARCH1	1378	2
7	23296679	0.000725689	GPNMB	1378	2
7	100244647	0.000728863	ACTL6B	1372	2
22	38875713	0.000365497	KDELR3	1368	1
19	3496618	0.000374251	DOHH	1336	1
11	64000189	0.000727273	DNAJC4	1375	2
4	84328610	0.002904866	HELQ	1377	8
19	53384669	0.000744602	ZNF320	1343	1
4	39408912	0.003263234	KLB	1379	8
14	96848619	0.000726216	GSKIP	1377	2
9	109685694	0.004713561	ZNF462	1379	13
2	86437712	0.000370645	MRPL35	1349	1
12	56194374	0.000725163	SARNP	1379	2
22	31485743	0.000729927	SMTN	1370	2
12	7015581	0.000727802	LRRC23	1374	2
3	158311196	0.00037092	MLF1	1348	1
12	27933635	0.000729395	KLHL42	1371	2
17	30796031	0.000725163	PSMD11	1379	2
20	44511292	0.000725163	ZSWIM1	1379	2
14	93649606	0.001452433	MOAP1	1377	1
1	223810525	0.000738552	CAPN8	1354	2
12	14948031	0.000366838	WBP11	1363	1
2	114390523	0.00037037	RABL2A	1350	1
18	61377477	0.000738007	SERPINB11	1355	2
7	66474628	0.000729395	TYW1	1371	2
12	52282040	0.001089325	ANKRD33	1377	3
1	152538500	0.000744602	LCE3E	1343	2
14	20924883	0.001450326	APEX1	1379	3
3	178745250	0.000726216	ZMAT3	1377	2
10	72610917	0.000725689	SGPL1	1378	2

3	192053223	0.000365497	FGF12	1368	1
10	95088519	0.007976795	MYOF	1379	18
3	136573477	0.001087745	SLC35G2	1379	3
1	235384965	0.000729927	ARID4B	1370	2
16	15698132	0.003263234	KIAA0430	1379	9
10	89265055	0.000727802	MINPP1	1374	2
6	41129115	0.00073692	TREM2	1357	2
9	104335691	0.003263234	GRIN3A	1379	7
6	32713094	0.000725163	HLA-DQA2	1379	2
1	38152033	0.00073046	C1orf109	1369	2
7	89856337	0.001088534	STEAP2	1378	2
3	48302318	0.000726216	ZNF589	1377	2
10	102987051	0.000732601	LBX1	1365	2
22	36122266	0.001088534	APOL5	1378	2
12	75804254	0.000727273	GLIPR1L2	1375	2
16	21968866	0.001450326	UQCRC2	1379	4
1	84768904	0.000725163	SAMD13	1379	2
2	119727713	0.000728863	MARCO	1372	2
20	372108	0.000734754	TRIB3	1361	2
5	114916329	0.000742942	TICAM2	1346	2
1	85816105	0.000725163	DDAH1	1379	2
13	46629902	0.001451379	CPB2	1378	4
3	121350777	0.000725163	HCLS1	1379	2
8	118169992	0.000727273	SLC30A8	1375	2
8	143994821	0.001450326	CYP11B2	1379	3
11	126294632	0.001111935	KIRREL3	1349	3
19	41219977	0.000363108	ADCK4	1377	1
5	10394194	0.000727273	MARCH6	1375	2
5	145317742	0.001450326	SH3RF2	1379	4
1	9791879	0.004354136	CLSTN1	1378	12
7	117024820	0.000725689	ASZ1	1378	2
12	11183231	0.000745156	TAS2R31	1342	2
5	87498803	0.000731529	TMEM161B	1367	2
12	111350916	0.000727802	MYL2	1374	2
11	118531867	0.000737463	TREH	1356	2
11	62902213	0.000733138	SLC22A24	1364	2
3	43388922	0.000734214	SNRK	1362	2
2	177036535	0.00074239	HOXD3	1347	2
17	38348868	0.000725163	RAPGEFL1	1379	2
12	64811891	0.00073046	XPOT	1369	1
10	103342705	0.002538071	POLL	1379	5
6	31608163	0.001089325	BAG6	1377	3
6	32903316	0.000726744	HLA-DMB	1376	2
5	156565853	0.000725689	MED7	1378	2
2	216964852	0.000732064	TMEM169	1366	2
17	4891834	0.000368732	INCA1	1356	1
1	145580413	0.000726216	PIAS3	1377	2
19	3179424	0.000726216	S1PR4	1377	2

3	42982788	0.000734214	KRBOX1	1362	2
12	1137138	0.003265602	ERC1	1378	8
7	6189506	0.001106195	USP42	1356	3
14	61442816	0.001451379	TRMT5	1378	4
9	105767031	0.000727802	CYLC2	1374	2
19	1912923	0.000734754	ADAT3	1361	2
21	26965124	0.000365764	MRPL39	1367	1
12	55420731	0.001087745	NEUROD4	1379	3
1	1685597	0.001089325	NADK	1377	3
3	142388307	0.001090909	PLS1	1375	3
16	58011823	0.000726744	TEPP	1376	2
2	192821072	0.000726216	TMEFF2	1377	2
11	6291998	0.00073046	CCKBR	1369	2
19	51329944	0.000376506	KLK15	1328	1
12	104682645	0.001108647	TXNRD1	1353	2
11	4143399	0.000726216	RRM1	1377	2
4	141458612	0.000725689	ELMOD2	1378	2
1	44684858	0.000732064	DMAP1	1366	2
19	11034179	0.000742942	YIPF2	1346	1
17	27413544	0.007374631	MYO18A	1356	17
17	41605959	0.00109569	ETV4	1369	3
12	5603358	0.00073046	NTF3	1369	2
2	70443995	0.000726744	TIA1	1376	2
19	51525872	0.000730994	KLK11	1368	2
1	161141722	0.001092498	B4GALT3	1373	3
18	51692503	0.000725689	MBD2	1378	2
13	41134175	0.000725163	FOXO1	1379	2
15	51692407	0.000725163	GLDN	1379	2
10	124273727	0.000728332	HTRA1	1373	2
11	59131933	0.000754717	OR5AN1	1325	2
11	55563099	0.000725689	OR5D14	1378	2
2	218938019	0.001110289	RUFY4	1351	3
11	50003294	0.000725689	OR4C12	1378	2
2	111881489	0.000367107	BCL2L11	1362	1
1	7837293	0.000725163	VAMP3	1379	2
22	20073664	0.001089325	DGCR8	1377	3
5	52942174	0.001094092	NDUFS4	1371	3
4	88583130	0.000363636	DMP1	1375	1
2	43015680	0.000728332	HAAO	1373	2
9	99154699	0.000727273	ZNF367	1375	2
15	33023194	0.000726216	GREM1	1377	2
17	6674038	0.000725163	XAF1	1379	2
3	49002398	0.000727802	ARIH2	1374	2
20	23420941	0.000726216	CSTL1	1377	2
9	100326379	0.000732601	TMOD1	1365	2
19	44831831	0.003263234	ZNF112	1379	7
6	143749790	0.001451379	ADAT2	1378	3
14	23744832	0.001106195	HOMEZ	1356	3

1	24134714	0.000727802	HMGCL	1374	2
11	18722619	0.001087745	TMEM86A	1379	3
12	49255877	0.00036846	RND1	1357	1
7	39606141	0.000727273	YAE1D1	1375	2
20	29992795	0.000363636	DEFB121	1375	1
5	128440887	0.00073046	ISOC1	1369	1
4	146435925	0.000369276	SMAD1	1354	1
9	5335273	0.000726744	RLN1	1376	2
14	58718860	0.000728332	PSMA3	1373	2
13	95696667	0.003625816	ABCC4	1379	10
1	231335937	0.001107829	TRIM67	1354	3
22	20783565	0.000379651	SCARF2	1317	1
9	91605924	0.000737463	C9orf47	1356	2
15	58465351	0.001089325	AQP9	1377	3
11	56020173	0.000725689	OR5T3	1378	2
2	24431148	0.003265602	ITSN2	1378	9
6	86217702	0.000727802	SNX14	1374	2
9	5462917	0.000728332	CD274	1373	1
6	80715662	0.002900653	TTK	1379	6
19	8841410	0.000725163	OR2Z1	1379	2
6	71185152	0.002902758	FAM135A	1378	8
9	123535048	0.000725163	FBXW2	1379	2
10	45799213	0.000728332	OR13A1	1373	2
15	89182747	0.000364697	ISG20	1371	1
15	58938334	0.000727802	ADAM10	1374	2
7	123302028	0.000738007	LMOD2	1355	2
1	161179383	0.001087745	NDUFS2	1379	2
7	72849334	0.000733138	FZD9	1364	2
1	203150396	0.000732601	CHI3L1	1365	2
14	77926011	0.000366569	AHSA1	1364	1
19	11569026	0.000727802	ELAVL3	1374	1
22	19121720	0.000728863	DGCR14	1372	2
6	125598364	0.000728332	HDDC2	1373	2
8	33347847	0.000725689	MAK16	1378	2
11	59368345	0.000726744	OSBP	1376	2
2	99778877	0.000726216	LIPT1	1377	2
2	113674819	0.000728863	IL37	1372	2
13	76445332	0.000740741	C13orf45	1350	1
15	39874073	0.002900653	THBS1	1379	8
14	92488103	0.000363108	TRIP11	1377	1
5	176517800	0.001087745	FGFR4	1379	3
10	101293055	0.000747943	NKX2-3	1337	2
7	99526754	0.000727273	GJC3	1375	2
5	33951655	0.000733676	SLC45A2	1363	2
12	29474735	0.000363108	FAR2	1377	1
17	62476442	0.000727802	POLG2	1374	2
11	124413046	0.000725689	OR8B12	1378	2
7	123254582	0.001090116	ASB15	1376	3

7	107115015	0.000726216	GPR22		1377	2
2	191785889	0.001090909	GLS		1375	2
17	72948452	0.000379363	HID1		1318	1
19	33700301	0.00073046	SLC7A10		1369	2
14	102873760	0.003628447	TECPR2		1378	10
16	29992934	0.003275109	TAOK2		1374	9
12	57175911	0.001089325	HSD17B6		1377	3
4	47034007	0.000725163	GABRB1		1379	2
17	1183455	0.000728863	TUSC5		1372	2
5	139189183	0.000726744	PSD2		1376	2
1	156038134	0.000732601	RAB25		1365	2
3	42594847	0.0003663	SEC22C		1365	1
9	131285971	0.001089325	GLE1		1377	3
1	155227160	0.000733676	SCAMP3		1363	2
18	61060719	0.000726744	VPS4B		1376	2
20	61574890	0.000753012	GID8		1328	2
6	24520722	0.000733138	ALDH5A1		1364	2
12	69263273	0.000735835	CPM		1359	1
2	68740216	0.000728332	APLF		1373	2
14	105639462	0.001093294	NUDT14		1372	3
2	176995421	0.000363901	HOXD8		1374	1
13	49075926	0.002539913	RCBTB2		1378	7
6	26246913	0.00074239	HIST1H4G		1347	1
11	124617469	0.00036846	VSIG2		1357	1
18	10539859	0.001477105	NAPG		1354	3
11	72469593	0.000368189	STARD10		1358	1
19	42603732	0.000747384	POU2F2		1338	1
14	77255576	0.001103753	ANGEL1		1359	3
19	16024639	0.001090909	CYP4F11		1375	3
2	86378567	0.001106195	IMMT		1356	3
19	1918158	0.000740741	SCAMP4		1350	2
22	45598917	0.000739098	KIAA0930		1353	2
2	242594038	0.00074239	ATG4B		1347	2
7	154237711	0.000743494	DPP6		1345	1
3	30898519	0.000373972	GADL1		1337	1
11	44621735	0.000732601	CD82		1365	1
14	52781639	0.000726744	PTGER2		1376	2
6	109748306	0.000725163	PPIL6		1379	2
19	48800338	0.000728863	CCDC114		1372	2
4	15964122	0.000729395	FGFBP2		1371	2
17	65688826	0.000737463	PITPNC1		1356	2
1	11918462	0.00037037	NPPB		1350	1
7	100211120	0.000740741	MOSPD3		1350	2
16	30390770	0.000728332		Sep-01	1373	2
12	95486551	0.002900653	FGD6		1379	7
7	73249243	0.000733138	WBSCR27		1364	2
8	143763464	0.000753012	PSCA		1328	2
19	39228006	0.001094092	CAPN12		1371	3

9	139640310	0.000727802	LCN6	1374	2
12	34177003	0.000740192	ALG10	1351	1
9	114840938	0.001451379	SUSD1	1378	4
19	7584189	0.000726744	ZNF358	1376	2
1	230461153	0.000726216	PGBD5	1377	2
16	4382334	0.000740192	GLIS2	1351	2
17	79994180	0.00073046	DCXR	1369	2
12	9908970	0.000728332	CD69	1373	2
9	3301585	0.001454545	RFX3	1375	3
3	189689704	0.000726744	LEPREL1	1376	2
19	41822337	0.000733138	CCDC97	1364	2
11	74347265	0.000726216	POLD3	1377	2
12	120741551	0.001090909	SIRT4	1375	2
11	47282042	0.001088534	NR1H3	1378	3
8	23167353	0.000727273	LOXL2	1375	2
1	41012999	0.000729927	ZNF684	1370	2
20	17950642	0.000725163	MGME1	1379	2
12	51034633	0.002539913	DIP2B	1378	7
13	26970464	0.000372024	CDK8	1344	1
12	65720710	0.000727802	MSRB3	1374	2
10	71903681	0.000367647	TYSND1	1360	1
12	42853811	0.000726216	PRICKLE1	1377	2
1	24077841	0.000726744	TCEB3	1376	2
2	101093706	0.001088534	NMS	1378	3
20	34214532	0.003263234	CPNE1	1379	9
11	122929381	0.000366838	HSPA8	1363	1
11	4470611	0.000729395	OR52K2	1371	2
8	82751902	0.000726216	SNX16	1377	2
3	182853553	0.000726744	LAMP3	1376	2
14	96157094	0.000727802	TCL1B	1374	2
11	112103902	0.000729927	PTS	1370	2
21	31691823	0.000746269	KRTAP26-1	1340	1
6	401509	0.000735294	IRF4	1360	2
19	21281085	0.000729927	ZNF714	1370	2
1	161719827	0.000726744	DUSP12	1376	2
15	56924094	0.002538071	ZNF280D	1379	7
19	53344249	0.000726744	ZNF468	1376	2
17	42152338	0.000728332	G6PC3	1373	2
8	69243574	0.000749064	RP11-664D7.4	1335	2
2	179319188	0.001090116	DFNB59	1376	2
7	95115461	0.001087745	ASB4	1379	3
20	407966	0.001090909	RBCK1	1375	2
1	33613124	0.001092498	TRIM62	1373	3
11	46700937	0.000728332	ARHGAP1	1373	2
13	114286015	0.000732601	TFDP1	1365	2
19	44661558	0.000729395	ZNF234	1371	2
18	23615857	0.00073046	SS18	1369	2
12	6925294	0.000362845	CD4	1378	1

1	22159788	0.008701958	HSPG2	1379	22
9	24544238	0.000738007	IZUMO3	1355	2
16	15127137	0.000727273	PDXDC1	1375	2
12	98991700	0.000725689	SLC25A3	1378	2
9	95179504	0.000363636	OMD	1375	1
11	58034468	0.000726216	OR10W1	1377	2
3	30691779	0.000726744	TGFBR2	1376	2
19	14165325	0.000739645	PALM3	1352	1
7	73105274	0.000725689	WBSCR22	1378	2
19	7686182	0.000726744	XAB2	1376	2
15	74032427	0.000732601	C15orf59	1365	2
14	68114844	0.000729395	ARG2	1371	2
14	102815028	0.000373413	CINP	1339	1
1	205307700	0.000728863	KLHDC8A	1372	2
2	31147007	0.001087745	GALNT14	1379	3
4	123797521	0.001088534	FGF2	1378	2
9	97367859	0.000727273	FBP1	1375	2
5	94278094	0.00036523	MCTP1	1369	1
15	59323487	0.001087745	RNF111	1379	3
19	49442849	0.000728863	DHDH	1372	2
17	71193458	0.001088534	COG1	1378	3
10	30605079	0.001090909	MTPAP	1375	3
6	74063837	0.001138088	DPPA5	1318	2
7	38429451	0.000732064	AMPH	1366	2
11	46625387	0.000726744	HARBI1	1376	2
6	26463496	0.000725689	BTN2A1	1378	2
5	56231534	0.000725689	MIER3	1378	2
22	30494901	0.001109467	HORMAD2	1352	2
14	21960796	0.000725689	TOX4	1378	1
11	55587769	0.000725689	OR5D18	1378	2
3	42573803	0.000725689	VIPR1	1378	2
14	62542053	0.00037037	SYT16	1350	1
5	10448406	0.000725163	ROPN1L	1379	1
5	170159876	0.00073046	KCNIP1	1369	1
4	156831175	0.000727273	TDO2	1375	2
8	86121528	0.000737463	E2F5	1356	2
1	47279248	0.000728332	CYP4B1	1373	2
2	232646556	0.000730994	COPS7B	1368	2
18	20950187	0.000733138	TMEM241	1364	2
17	79095037	0.001118568	AATK	1341	3
12	57569769	0.008339376	LRP1	1379	22
7	89901158	0.003988397	C7orf63	1379	10
3	52012297	0.000730994	ABHD14A-ACY1	1368	2
16	57503918	0.000729927	POLR2C	1370	2
4	147204385	0.000726744	SLC10A7	1376	2
1	216850557	0.000727273	ESRRG	1375	2
19	19638119	0.00073046	NDUFA13	1369	2
19	19638119	0.00073046	YJEFN3	1369	2

11	60105233	0.000730994	MS4A6E	1368	2
6	21595957	0.000749625	SOX4	1334	2
1	20980170	0.000727802	DDOST	1374	2
5	179991556	0.000725163	CNOT6	1379	2
13	28008291	0.000738552	GTF3A	1354	2
9	72913033	0.001089325	SMC5	1377	3
11	75155462	0.000735294	GDPD5	1360	1
17	7492773	0.000736377	SOX15	1358	2
11	67402671	0.000375375	TBX10	1332	1
11	22387209	0.001088534	SLC17A6	1378	3
4	15437492	0.001088534	C1QTNF7	1378	3
19	41515953	0.000725163	CYP2B6	1379	2
20	57019215	0.000732064	VAPB	1366	1
1	118165548	0.000725163	FAM46C	1379	2
11	125479401	0.000725689	STT3A	1378	2
22	41077021	0.000737463	MCHR1	1356	2
16	28998002	0.000729927	LAT	1370	2
13	45147729	0.001088534	TSC22D1	1378	2
1	158517238	0.000731529	OR6Y1	1367	2
16	88767742	0.001132931	RNF166	1324	1
11	15096287	0.001100514	CALCB	1363	3
9	34690219	0.000733138	CCL19	1364	2
5	115782344	0.004056047	SEMA6A	1356	11
17	48185541	0.000733138	PDK2	1364	2
12	52115654	0.001107011	SCN8A	1355	3
5	150565016	0.000725689	CCDC69	1378	2
1	215408311	0.001088534	KCNK2	1378	2
3	119427483	0.000727273	MAATS1	1375	1
7	30469032	0.002902758	NOD1	1378	7
1	112319865	0.000728332	KCND3	1373	2
19	51452241	0.00073046	KLK5	1369	2
4	76927406	0.000735835	CXCL9	1359	1
11	57265242	0.000373692	SLC43A1	1338	1
1	35250754	0.000726216	GJB3	1377	2
19	54545179	0.001089325	VSTM1	1377	3
6	43251254	0.000728332	TTBK1	1373	2
17	6901888	0.000727273	ALOX12	1375	2
19	10897288	0.000727802	DNM2	1374	2
12	7169907	0.000727273	C1S	1375	2
19	1421225	0.000367647	DAZAP1	1360	1
8	37972447	0.000725689	ASH2L	1378	2
17	79650048	0.000739098	ARL16	1353	2
17	49270356	0.000726216	MBTD1	1377	2
1	70820844	0.000747384	HHLA3	1338	1
10	28151455	0.000727802	ARMC4	1374	2
4	4276132	0.000725689	LYAR	1378	2
6	53707013	0.000727273	LRRC1	1375	2
19	17985478	0.000367647	SLC5A5	1360	1

1	45276082	0.00074239	BTBD19	1347	2
1	53372265	0.000727273	ECHDC2	1375	2
1	55337081	0.000732601	DHCR24	1365	2
11	1075846	0.004424779	MUC2	1356	11
14	64877856	0.001087745	MTHFD1	1379	3
17	79914800	0.000728332	NOTUM	1373	2
9	32572921	0.000732601	NDUFB6	1365	2
1	35917258	0.000726216	KIAA0319L	1377	2
7	21599409	0.024336283	DNAH11	1356	58
19	52537050	0.000747384	ZNF432	1338	2
7	96635297	0.00074239	DLX6	1347	1
5	179743359	0.001090909	GFPT2	1375	3
12	9875271	0.000725689	CLECL1	1378	2
11	205490	0.000369004	BET1L	1355	1
12	69646898	0.000725689	CPSF6	1378	2
12	96641020	0.001087745	ELK3	1379	3
6	2834209	0.001087745	SERPINB1	1379	3
13	114321912	0.000740192	GRK1	1351	2
14	24683259	0.000725689	MDP1	1378	2
8	86250540	0.000725163	CA1	1379	2
4	68424598	0.000733676	STAP1	1363	2
3	10258703	0.000725163	IRAK2	1379	2
10	36811865	0.000746826	NAMPTL	1339	2
9	99325052	0.000726216	CDC14B	1377	2
2	170487301	0.001094092	PPIG	1371	3
6	70961834	0.000726216	COL9A1	1377	2
3	14860619	0.003318584	FGD5	1356	9
3	127358228	0.000729927	PODXL2	1370	2
1	62672640	0.000727802	L1TD1	1374	2
1	158817638	0.000728332	MNDA	1373	2
3	133673932	0.001461988	SLCO2A1	1368	2
3	111812282	0.00074129	C3orf52	1349	2
19	57888678	0.000725163	ZNF547	1379	2
8	38853745	0.000739645	TM2D2	1352	2
22	50717035	0.002909091	PLXNB2	1375	8
8	120942084	0.000727273	DEPTOR	1375	2
19	52220362	0.001102131	HAS1	1361	3
11	6261907	0.001092498	CNGA4	1373	3
10	126097447	0.000726744	OAT	1376	2
15	78834960	0.000729395	PSMA4	1371	2
10	23729564	0.00037037	OTUD1	1350	1
11	9163560	0.002900653	DENND5A	1379	8
8	55049968	0.000728332	MRPL15	1373	2
1	87797721	0.000731529	LMO4	1367	2
2	171073904	0.006526468	MYO3B	1379	17
4	6718446	0.000745712	BLOC1S4	1341	2
15	77348204	0.000363372	TSPAN3	1376	1
1	230841859	0.000733676	AGT	1363	2

19	16006380	0.000728332	CYP4F2	1373	2
20	49620727	0.000736377	KCNG1	1358	2
2	109379811	0.005438724	RANBP2	1379	13
21	18933752	0.000749064	CXADR	1335	1
11	63411718	0.000726216	ATL3	1377	2
4	7435400	0.00074129	PSAPL1	1349	2
19	40320607	0.000369549	DYRK1B	1353	1
11	123777620	0.000726744	OR8D4	1376	1
1	212981105	0.000725689	TATDN3	1378	2
1	231935927	0.000727802	DISC1	1374	2
22	20024358	0.000727802	TANGO2	1374	2
20	51870084	0.002900653	TSHZ2	1379	8
1	6155418	0.000728332	KCNAB2	1373	2
12	8904576	0.000725689	RIMKLB	1378	2
10	103542335	0.000732064	NPM3	1366	2
11	62482785	0.002539913	HNRNPUL2	1378	6
19	17571384	0.000732064	NXNL1	1366	2
11	74983952	0.000726216	ARRB1	1377	2
9	35741872	0.000728863	GBA2	1372	2
3	44700368	0.001456664	ZNF35	1373	4
21	30547037	0.000725689	MAP3K7CL	1378	2
19	17387360	0.000739098	BABAM1	1353	2
16	1748877	0.00037092	HN1L	1348	1
14	31388310	0.000726744	STRN3	1376	2
9	77684814	0.000725689	NMRK1	1378	2
14	61449328	0.000725163	SLC38A6	1379	2
11	62496433	0.000726216	TTC9C	1377	2
13	36900735	0.000726744	SPG20	1376	2
13	28562744	0.000379939	URAD	1316	1
4	10080586	0.00074184	WDR1	1348	2
14	90429736	0.001094092	TDP1	1371	3
9	90343182	0.00074184	CTSL	1348	2
11	18362829	0.00037092	GTF2H1	1348	1
16	74908270	0.000733138	WDR59	1364	2
16	29918383	0.000375657	KCTD13	1331	1
1	6314832	0.000743494	GPR153	1345	2
11	107677455	0.000725689	SLC35F2	1378	2
19	42814422	0.001135503	PRR19	1321	3
1	4772588	0.000746269	AJAP1	1340	1
19	8563937	0.000740192	PRAM1	1351	2
18	46287770	0.000730994	CTIF	1368	2
11	75277940	0.000730994	SERPINH1	1368	2
15	77239820	0.00073046	RCN2	1369	1
19	35769897	0.000371747	USF2	1345	1
3	131100918	0.001090116	NUDT16	1376	3
7	99129203	0.000726216	ZKSCAN5	1377	2
6	116288854	0.000740192	FRK	1351	1
12	48577997	0.00073692	C12orf68	1357	2

11	93526936	0.000726216	MED17	1377	2
19	41286346	0.000729395	RAB4B	1371	2
15	25601957	0.000725163	UBE3A	1379	2
19	44470432	0.000725689	ZNF221	1378	2
1	48697644	0.002538071	SLC5A9	1379	6
14	90420930	0.00074239	EFCAB11	1347	2
15	72534281	0.001087745	PARP6	1379	3
11	114271436	0.000732601	RBM7	1365	1
12	110820655	0.002539913	ANAPC7	1378	7
12	62696620	0.000727802	USP15	1374	2
6	126075663	0.000725689	HEY2	1378	2
1	2520040	0.001099707	FAM213B	1364	3
4	367578	0.000732064	ZNF141	1366	2
5	149212277	0.002902758	PPARGC1B	1378	8
19	1507380	0.000738007	ADAMTSL5	1355	2
5	138758464	0.000725689	DNAJC18	1378	2
19	42703895	0.000755858	DEDD2	1323	2
1	169694917	0.000726744	SELE	1376	2
3	137907295	0.001453488	ARMC8	1376	4
1	1956776	0.000734754	GABRD	1361	2
20	4680087	0.000726744	PRNP	1376	2
1	36927738	0.000726216	MRPS15	1377	2
16	2481227	0.000726216	CCNF	1377	2
19	55693153	0.002902758	PTPRH	1378	7
19	50979486	0.000739645	FAM71E1	1352	2
1	224477185	0.000727273	NVL	1375	2
11	93553942	0.00074129	VSTM5	1349	2
4	78808429	0.000727273	MRPL1	1375	2
14	23511634	0.000727273	PSMB11	1375	2
3	196434501	0.000367107	CEP19	1362	1
3	16336446	0.000725689	OXNAD1	1378	2
9	136907035	0.000734754	BRD3	1361	2
3	183772551	0.000725163	HTR3C	1379	2
19	1388889	0.000757002	NDUFS7	1321	1
2	230231716	0.001088534	DNER	1378	3
6	31779101	0.001087745	HSPA1L	1379	3
2	234967490	0.000726744	SPP2	1376	2
6	109768616	0.002178649	MICAL1	1377	6
12	31540544	0.000739098	DENND5B	1353	2
6	111540072	0.001087745	SLC16A10	1379	3
19	59028386	0.000729927	ZBTB45	1370	2
9	131331111	0.003997093	SPTAN1	1376	11
5	31983640	0.008701958	PDZD2	1379	21
9	131133667	0.000726744	URM1	1376	2
6	11104984	0.00075358	ERVFRD-1	1327	2
7	143771905	0.000746269	OR2A25	1340	2
12	27066570	0.003263234	ASUN	1379	9
2	121036261	0.000734214	RALB	1362	2

2	33246174	0.004350979	LTBP1	1379	11
10	99327783	0.000731529	UBTD1	1367	2
2	74717798	0.000729395	TTC31	1371	2
16	21995716	0.000726744	PDZD9	1376	2
6	136560877	0.000726216	MTFR2	1377	2
12	58152477	0.00075643	MARCH9	1322	1
5	180277506	0.001510574	ZFP62	1324	2
17	58503586	0.001094092	C17orf64	1371	3
13	41381494	0.000364166	SLC25A15	1373	1
1	160915003	0.000727802	ITLN2	1374	2
1	206776554	0.000726216	EIF2D	1377	2
11	47440747	0.000725689	PSMC3	1378	2
8	108972950	0.000727273	RSPO2	1375	2
17	42398489	0.000377358	SLC25A39	1325	1
9	132618587	0.004350979	USP20	1379	12
2	203806632	0.003988397	CARF	1379	10
10	5416008	0.000751315	UCN3	1331	1
4	78665999	0.000373134	CNOT6L	1340	1
2	220462866	0.00295421	STK11IP	1354	6
11	64864521	0.000733138	VPS51	1364	2
1	186644467	0.000727273	PTGS2	1375	2
8	110100030	0.000726744	TRHR	1376	2
3	137749885	0.000733138	CLDN18	1364	2
7	44112848	0.000740192	POLM	1351	2
20	57571770	0.000733138	CTSZ	1364	2
1	40208918	0.000726744	PPIE	1376	2
1	182569560	0.001089325	RGS16	1377	2
1	197313471	0.007251632	CRB1	1379	18
7	143079449	0.000729395	ZYX	1371	2
1	158669575	0.001091703	OR6K2	1374	3
14	29261313	0.001507159	C14orf23	1327	3
2	74684497	0.001130369	INO80B	1327	1
9	131482752	0.001091703	PKN3	1374	3
8	38121963	0.001107011	PPAPDC1B	1355	3
11	102272289	0.001089325	TMEM123	1377	3
6	29640776	0.000726744	ZFP57	1376	2
1	226026385	0.000732064	EPHX1	1366	1
11	60531336	0.000369276	MS4A15	1354	1
12	52566878	0.000731529	KRT80	1367	2
2	71417060	0.000372024	PAIP2B	1344	1
15	83687547	0.000726744	BTBD1	1376	2
17	81042826	0.000738552	METRNL	1354	2
1	248570104	0.000725163	OR2T1	1379	2
12	118480721	0.000727273	WSB2	1375	2
12	58139640	0.000725689	TSPAN31	1378	2
3	197687124	0.003991292	LMLN	1378	11
9	21971024	0.000732601	CDKN2A	1365	2
3	36524507	0.000727802	STAC	1374	2

6	36463580	0.000725163	STK38	1379	2
1	159799730	0.000365764	SLAMF8	1367	1
1	76198408	0.00073046	ACADM	1369	2
11	134109996	0.000728863	VPS26B	1372	2
22	35779176	0.000730994	HMOX1	1368	2
19	36212333	0.004062038	KMT2B	1354	11
19	21992165	0.000726216	ZNF43	1377	2
1	77334186	0.001096491	ST6GALNAC5	1368	2
16	1399463	0.001087745	TSR3	1379	3
10	104614072	0.000727273	C10orf32	1375	2
1	230979222	0.000745712	C1orf198	1341	2
17	43246434	0.001090909	HEXIM2	1375	3
16	15661901	0.000731529	C16orf45	1367	1
19	30498440	0.000728332	URI1	1373	2
22	38219603	0.00036846	GALR3	1357	1
6	47200632	0.001087745	TNFRSF21	1379	3
1	47495767	0.001087745	CYP4X1	1379	3
5	153830676	0.000726744	SAP30L	1376	2
11	12399211	0.000738552	PARVA	1354	2
17	5336723	0.000728863	C1QBP	1372	1
12	53446246	0.005801305	TENC1	1379	14
1	27176875	0.000728332	ZDHHC18	1373	2
5	72858633	0.000363901	ANKRA2	1374	1
13	45781559	0.000725689	GTF2F2	1378	2
6	35782428	0.000734754	LHFPL5	1361	2
16	30975520	0.000728863	SETD1A	1372	2
19	14065239	0.001104566	DCAF15	1358	3
3	121615292	0.003263234	SLC15A2	1379	9
10	124921802	0.000727273	BUB3	1375	2
4	844846	0.003628447	GAK	1378	10
9	102713391	0.000725689	STX17	1378	2
1	157067713	0.000733676	ETV3L	1363	2
12	109042773	0.000728332	CORO1C	1373	2
16	57786748	0.000735294	KATNB1	1360	2
1	205492326	0.002904866	CDK18	1377	7
10	54528193	0.001088534	MBL2	1378	2
14	59945925	0.000725689	L3HYPDH	1378	2
21	34652057	0.000366838	IL10RB	1363	1
17	26874365	0.001088534	UNC119	1378	3
17	76705763	0.0003663	CYTH1	1365	1
18	19780748	0.000376506	GATA6	1328	1
2	70124588	0.000726216	SNRNP27	1377	2
1	200842820	0.001106195	GPR25	1356	3
8	87126069	0.000725689	ATP6V0D2	1378	2
2	164467786	0.000743494	FIGN	1345	2
11	101323732	0.003625816	TRPC6	1379	9
1	201437628	0.000738552	PHLDA3	1354	2
10	33474573	0.002900653	NRP1	1379	8

18	33558940	0.000363636	C18orf21	1375	1
1	38019712	0.000736377	SNIP1	1358	2
1	1372591	0.000735835	VWA1	1359	2
6	28294370	0.000725689	ZSCAN31	1378	2
3	58191211	0.000363108	DNASE1L3	1377	1
10	44112192	0.000726216	ZNF485	1377	1
2	152980407	0.000362845	STAM2	1378	1
18	21192060	0.000727802	ANKRD29	1374	2
11	20691284	0.003625816	NELL1	1379	10
2	71211329	0.000725163	ANKRD53	1379	2
6	31691562	0.0003663	C6orf25	1365	1
4	186429568	0.001098097	PDLIM3	1366	3
5	101575020	0.001087745	SLCO4C1	1379	3
4	1843179	0.00074184	LETM1	1348	2
12	133197161	0.000732601	P2RX2	1365	2
12	1755045	0.00074184	WNT5B	1348	2
14	20248514	0.000728332	OR4M1	1373	2
22	23974045	0.000730994	C22orf43	1368	2
4	79747269	0.003263234	BMP2K	1379	9
1	15986439	0.001089325	RSC1A1	1377	3
1	8415166	0.002900653	RERE	1379	8
4	156618022	0.001089325	GUCY1A3	1377	3
10	101542603	0.00688905	ABCC2	1379	14
22	24095124	0.000728863	VPREB3	1372	2
11	65820532	0.00073046	SF3B2	1369	2
19	12576065	0.000739645	ZNF709	1352	2
7	148909506	0.000729927	ZNF282	1370	2
1	225705399	0.000379939	ENAH	1316	1
14	93412769	0.000740741	ITPK1	1350	1
22	29191559	0.000727273	XBP1	1375	1
12	50480011	0.000729927	SMARCD1	1370	2
11	116656526	0.0003663	ZNF259	1365	1
1	38280920	0.001451379	MTF1	1378	4
18	12353087	0.001087745	AFG3L2	1379	3
16	1143645	0.000760456	C1QTNF8	1315	1
19	58863676	0.000728332	A1BG	1373	2
13	25671445	0.000728863	PABPC3	1372	2
3	12195832	0.001087745	TIMP4	1379	3
16	19034471	0.002539913	TMC7	1378	7
22	22041261	0.001098901	PPIL2	1365	3
7	138833031	0.001088534	TTC26	1378	3
19	37677456	0.000729927	ZNF585B	1370	2
19	39787140	0.000742942	IFNL1	1346	1
16	1837934	0.001109467	NUBP2	1352	3
9	120466736	0.002904866	TLR4	1377	6
7	63720645	0.001090116	ZNF679	1376	3
16	29818137	0.001091703	MAZ	1374	3
11	113934507	0.000727802	ZBTB16	1374	2

11	46388930	0.00074184	DGKZ	1348	2
3	186389438	0.001087745	HRG	1379	3
3	108698362	0.000726216	MORC1	1377	2
20	43940943	0.001096491	RBPJL	1368	2
5	159659258	0.000374813	FABP6	1334	1
20	31756985	0.000729927	BPIFA2	1370	2
15	90610436	0.000733138	ZNF710	1364	2
21	35743080	0.00109569	KCNE2	1369	1
17	80011779	0.000740741	GPS1	1350	2
2	238727208	0.001107829	RBM44	1354	3
6	29692001	0.000725163	HLA-F	1379	2
7	8095065	0.001087745	GLCCI1	1379	3
2	132241638	0.000746269	MZT2A	1340	2
15	75646083	0.000728863	NEIL1	1372	2
4	99997450	0.000738007	ADH5	1355	2
19	12460926	0.000725689	ZNF442	1378	2
11	108115585	0.012327774	ATM	1379	29
2	242038990	0.000726744	MTERFD2	1376	2
12	56956205	0.000725689	RBMS2	1378	2
13	110826321	0.003988397	COL4A1	1379	9
17	17764827	0.000727273	TOM1L2	1375	2
1	167023599	0.000725689	GPA33	1378	2
14	67854078	0.000725689	PLEK2	1378	2
1	1412689	0.000727802	ATAD3B	1374	2
11	124644635	0.000728332	MSANTD2	1373	2
9	101980289	0.000746826	ALG2	1339	2
17	48542681	0.002545455	CHAD	1375	6
22	30803502	0.000727802	SEC14L2	1374	2
16	58292338	0.000363901	CCDC113	1374	1
5	64931139	0.000738007	TRAPPC13	1355	2
8	39442833	0.003988397	ADAM18	1379	11
8	67955489	0.000726216	COPS5	1377	2
16	2522322	0.000734754	NTN3	1361	2
2	198482567	0.001088534	RFTN2	1378	3
2	15358973	0.007251632	NBAS	1379	20
19	55686668	0.000735835	SYT5	1359	2
11	118656893	0.000372301	DDX6	1343	1
14	74060566	0.000725689	ACOT4	1378	2
5	93985188	0.001815541	ANKRD32	1377	5
1	147230616	0.000726216	GJA5	1377	2
13	48832326	0.000725163	ITM2B	1379	2
9	128509880	0.000726744	PBX3	1376	2
11	105880533	0.000726744	MSANTD4	1376	2
7	135366419	0.000727273	SLC13A4	1375	2
17	55027998	0.001090116	COIL	1376	3
19	40877707	0.000725163	PLD3	1379	2
19	19231881	0.001113586	TMEM161A	1347	2
11	17793342	0.000726744	KCNC1	1376	2

11	3687432	0.00073692	CHRNA10	1357	2
1	161044502	0.00074239	PVRL4	1347	2
2	26590042	0.001107829	EPT1	1354	3
20	62332015	0.000735294	ARFRP1	1360	2
19	56701609	0.001094092	ZSCAN5B	1371	2
2	27522285	0.000737463	TRIM54	1356	2
2	55200752	0.002900653	RTN4	1379	8
19	48718605	0.000725689	CARD8	1378	2
11	45926549	0.000729395	MAPK8IP1	1371	2
5	40692026	0.000725163	PTGER4	1379	2
17	74562349	0.000736377	ST6GALNAC2	1358	2
16	31230501	0.000759301	TRIM72	1317	1
10	124907965	0.00073692	HMX2	1357	2
2	46228668	0.000728863	PRKCE	1372	2
9	90499992	0.003265602	SPATA31E1	1378	9
5	36257015	0.001106195	RANBP3L	1356	2
18	8718603	0.007251632	SOGA2	1379	19
19	58101921	0.000726744	ZIK1	1376	2
5	56542189	0.000728332	GPBP1	1373	2
16	19883695	0.000731529	GPRC5B	1367	2
9	36219883	0.002538071	GNE	1379	7
19	56693588	0.000725689	GALP	1378	2
8	48686910	0.013643068	PRKDC	1356	29
5	74017590	0.000726744	GFM2	1376	2
4	75937826	0.000747384	PARM1	1338	2
2	37873446	0.001454545	CDC42EP3	1375	3
5	2752752	0.000363901	C5orf38	1374	1
1	205631092	0.00074129	SLC45A3	1349	2
17	41177979	0.000363901	RND2	1374	1
1	151819879	0.000733138	THEM5	1364	2
22	50750654	0.000743494	DENND6B	1345	2
15	68479928	0.001111935	PIAS1	1349	3
2	26683818	0.008339376	OTOF	1379	23
17	38230770	0.000732601	THRA	1365	2
16	85711844	0.001088534	GINS2	1378	3
11	64557932	0.000734214	MAP4K2	1362	2
6	74114485	0.002538071	DDX43	1379	6
19	12918039	0.000727802	RNASEH2A	1374	2
5	149677030	0.00074239	ARSI	1347	2
2	220037559	0.000730994	CNPPD1	1368	2
14	74340726	0.000726744	PTGR2	1376	2
9	124110355	0.000733676	STOM	1363	2
8	99718720	0.000738552	STK3	1354	2
11	62948175	0.000725689	SLC22A25	1378	2
11	58604766	0.000725689	GLYATL2	1378	2
1	196963286	0.000725689	CFHR5	1378	2
7	140051213	0.001088534	SLC37A3	1378	3
4	1075396	0.000726216	RNF212	1377	2

19	42225021	0.000725689	CEACAM5		1378	1
18	11851594	0.000743494	CHMP1B		1345	2
10	96534872	0.000725689	CYP2C19		1378	2
2	68620314	0.000725689	PLEK		1378	2
10	111630638	0.000727802	XPNPEP1		1374	2
4	164271648	0.000725163	NPY5R		1379	2
1	212911912	0.000743494	NSL1		1345	2
20	5560774	0.000726216	GPCPD1		1377	2
8	144776649	0.000378215	ZNF707		1322	1
8	38271462	0.000371471	FGFR1		1346	1
10	70863647	0.000364964	SRGN		1370	1
1	7861185	0.007614213	PER3		1379	20
17	4848217	0.000380228	RNF167		1315	1
4	166408683	0.000725689	CPE		1378	2
10	30748295	0.000369004	MAP3K8		1355	1
14	88859767	0.000727273	SPATA7		1375	2
4	118005889	0.001104566	TRAM1L1		1358	3
3	9908873	0.000371195	CIDEC		1347	1
4	10567718	0.00037037	CLNK		1350	1
19	14867142	0.001089325	EMR2		1377	3
20	62697853	0.000733138	TCEA2		1364	2
16	80667130	0.000725689	CDYL2		1378	2
14	60977949	0.00036523	SIX6		1369	1
10	118896071	0.000731529	VAX1		1367	2
16	71956468	0.000731529	IST1		1367	2
19	20308033	0.000372578	ZNF486		1342	1
2	209007373	0.000728332	CRYGB		1373	2
11	12886434	0.000726744	TEAD1		1376	2
19	43999660	0.00037037	PHLDB3		1350	1
8	145161338	0.000725689	MAF1		1378	2
11	58892140	0.001090116	FAM111B		1376	2
1	67145397	0.000727802	SGIP1		1374	2
16	21654473	0.000725163	IGSF6		1379	2
12	50052324	0.000726744	FMNL3		1376	2
1	154962122	0.000726216	FLAD1		1377	2
22	36587195	0.000738007	APOL4		1355	2
17	75398722	0.000377358		Sep-09	1325	1
17	10728819	0.00075358	PIRT		1327	2
8	64099875	0.000738007	YTHDF3		1355	2
1	62166628	0.000737463	TM2D1		1356	2
7	98647303	0.00037092	SMURF1		1348	1
17	43191674	0.00074129	PLCD3		1349	2
17	18862002	0.001451379	SLC5A10		1378	3
12	55615331	0.001087745	OR10A7		1379	3
9	5534927	0.000365497	PDCD1LG2		1368	1
1	151288434	0.001089325	PI4KB		1377	3
6	1313292	0.000738552	FOXQ1		1354	2
3	48338290	0.000363636	NME6		1375	1

10	121182714	0.000728332	GRK5	1373	2
12	54756512	0.000365497	GPR84	1368	1
5	133478514	0.000725163	TCF7	1379	2
7	127343314	0.001090116	SND1	1376	3
17	8646983	0.00073046	CCDC42	1369	2
19	36106192	0.000734754	HAUS5	1361	2
8	82592981	0.000363372	IMPA1	1376	1
6	43143483	0.000366032	SRF	1366	1
7	26766512	0.000363372	SKAP2	1376	1
12	70931963	0.004056047	PTPRB	1356	11
16	89167139	0.002549162	ACSF3	1373	6
7	16644392	0.002900653	ANKMY2	1379	7
11	5461824	0.001087745	OR51I1	1379	2
19	40711185	0.00037594	MAP3K10	1330	1
2	176958142	0.000725163	HOXD13	1379	2
16	58031291	0.000730994	ZNF319	1368	2
3	9934678	0.000363372	JAGN1	1376	1
12	70178550	0.000728332	RAB3IP	1373	2
2	676591	0.000372578	TMEM18	1342	1
10	15121018	0.000363901	ACBD7	1374	1
19	651833	0.000380518	RNF126	1314	1
10	30901786	0.000362845	LYZL2	1378	1
17	73258038	0.001455604	MRPS7	1374	4
5	137902790	0.000728863	HSPA9	1372	2
6	30298632	0.000726216	TRIM39	1377	2
13	114774874	0.000735294	RASA3	1360	1
13	45553391	0.000728863	NUFIP1	1372	2
20	14308077	0.000380518	FLRT3	1314	1
12	91545441	0.000734754	DCN	1361	2
4	7985278	0.00074184	ABLIM2	1348	2
1	204124958	0.000729927	REN	1370	2
17	38172590	0.000726216	CSF3	1377	2
12	112919933	0.00037594	PTPN11	1330	1
7	50547497	0.000725689	DDC	1378	2
17	77921559	0.000728332	TBC1D16	1373	2
4	69199059	0.00036523	YTHDC1	1369	1
15	40655889	0.002902758	DISP2	1378	8
9	140446646	0.000733676	MRPL41	1363	2
17	9281935	0.000727802	STX8	1374	2
5	125805425	0.000725163	GRAMD3	1379	2
12	21602526	0.001090909	PYROXD1	1375	3
19	44417630	0.002900653	ZNF45	1379	8
18	12706586	0.001092498	PSMG2	1373	3
8	120252466	0.000740192	MAL2	1351	2
2	227729319	0.000725689	RHBDD1	1378	2
4	2744105	0.001087745	TNIP2	1379	3
10	86177596	0.001089325	CCSER2	1377	2
4	101331486	0.00073046	EMCN	1369	2

2	170662008	0.000728332	SSB	1373	2
5	179226251	0.001094092	MGAT4B	1371	3
1	18807485	0.004008746	KLHDC7A	1372	11
1	160163568	0.000725689	CASQ1	1378	2
11	77672129	0.000726744	INTS4	1376	2
10	59959063	0.000378501	IPMK	1321	1
19	50436179	0.000375375	ATF5	1332	1
15	96880676	0.000362845	NR2F2	1378	1
2	75104322	0.001094092	HK2	1371	2
12	57323262	0.000364697	SDR9C7	1371	1
3	11600131	0.000365497	VGLL4	1368	1
11	108381542	0.005076142	EXPH5	1379	14
12	3104108	0.001096491	TEAD4	1368	3
7	87037391	0.004350979	ABCB4	1379	11
2	202493971	0.000373972	TMEM237	1337	1
18	29101088	0.003625816	DSG2	1379	10
16	89774282	0.000729395	VPS9D1	1371	2
1	154995706	0.000729927	DCST2	1370	2
1	53553749	0.00073692	SLC1A7	1357	2
16	56599068	0.00037092	MT4	1348	1
9	125437646	0.000759878	OR1L3	1316	2
11	63141520	0.000725689	SLC22A9	1378	2
11	35684845	0.001091703	TRIM44	1374	3
15	63889683	0.000731529	FBXL22	1367	2
17	42426656	0.002906977	GRN	1376	7
20	44985240	0.000378501	SLC35C2	1321	1
16	67472885	0.00073046	ATP6V0D1	1369	2
14	55604949	0.001096491	LGALS3	1368	3
9	131893911	0.000726744	PPP2R4	1376	2
7	93065368	0.000726216	CALCR	1377	2
22	24125796	0.000734754	AP000349.1	1361	2
17	36520704	0.001093294	SOCS7	1372	2
7	810255	0.000731529	HEATR2	1367	2
2	121997133	0.000729927	TFCP2L1	1370	2
11	118764539	0.000726216	CXCR5	1377	2
20	60770942	0.000368189	MTG2	1358	1
5	54442494	0.000372301	CDC20B	1343	1
5	178358798	0.000727273	ZFP2	1375	2
9	127652697	0.000725163	GOLGA1	1379	2
1	197055951	0.013415518	ASPM	1379	35
14	103410502	0.002175489	CDC42BPB	1379	6
8	21977372	0.003644315	HR	1372	9
10	81923817	0.000726744	ANXA11	1376	2
11	63721898	0.0003663	NAA40	1365	1
8	71033536	0.007374631	NCOA2	1356	20
11	17741444	0.000369276	MYOD1	1354	1
14	35522556	0.000736377	FAM177A1	1358	2
7	141445339	0.000365497	SSBP1	1368	1

20	35061115	0.002900653	DLGAP4	1379	8
2	37468723	0.000376506	NDUFAF7	1328	1
1	170688968	0.000381388	PRRX1	1311	1
17	39537358	0.000727273	KRT34	1375	2
16	11362816	0.000739098	TNP2	1353	2
16	31089645	0.004716981	ZNF646	1378	11
5	139946888	0.00075358	SLC35A4	1327	2
7	31378169	0.000732064	NEUROD6	1366	2
2	180311323	0.000364431	ZNF385B	1372	1
4	106155184	0.006163887	TET2	1379	16
12	4662299	0.000367107	RAD51AP1	1362	1
11	117209355	0.000726216	CEP164	1377	2
16	2979765	0.000371195	FLYWCH1	1347	1
7	45956241	0.00036523	IGFBP3	1369	1
7	16901617	0.000726216	AGR3	1377	2
10	120354500	0.000365764	PRLHR	1367	1
3	167508301	0.000725689	SERPINI1	1378	2
13	103419826	0.000728332	TEX30	1373	2
14	77808257	0.000726744	TMED8	1376	2
1	95322939	0.001096491	SLC44A3	1368	2
17	4575035	0.003687316	PELP1	1356	10
15	80263145	0.000725163	BCL2A1	1379	2
14	100158157	0.000726216	CYP46A1	1377	2
1	55070055	0.00109569	ACOT11	1369	2
5	140810471	0.003625816	PCDHGA12	1379	9
22	17601015	0.000745156	CECR6	1342	1
17	72736979	0.000727802	RAB37	1374	2
4	103806513	0.000728332	CISD2	1373	1
3	141595675	0.000728332	ATP1B3	1373	2
19	17337909	0.001087745	OCEL1	1379	2
6	97339197	0.000373692	NDUFAF4	1338	1
1	8037723	0.000725163	PARK7	1379	2
5	60982800	0.000739645	C5orf64	1352	1
13	49796335	0.000733676	MLNR	1363	2
17	53063621	0.003628447	STXBP4	1378	7
3	109049616	0.000725689	DPPA4	1378	2
6	55147088	0.000728863	HCRTR2	1372	2
19	54656638	0.000374813	CNOT3	1334	1
11	118039397	0.000367107	SCN2B	1362	1
17	56540146	0.001090909	HSF5	1375	2
12	42711228	0.000364697	ZCRB1	1371	1
1	155291880	0.001090909	RUSC1	1375	3
12	50848142	0.000370096	LARP4	1351	1
12	122975042	0.000739098	ZCCHC8	1353	2
2	109300342	0.000367377	LIMS1	1361	1
19	40224922	0.00036523	CLC	1369	1
5	45645701	0.000367107	HCN1	1362	1
5	133295499	0.000369549	C5orf15	1353	1

3	178960783	0.000726216	KCNMB3	1377	2
18	48444554	0.000364697	ME2	1371	1
1	110280962	0.00073046	GSTM3	1369	2
20	56796406	0.000370096	ANKRD60	1351	1
12	11420138	0.000735294	PRB3	1360	2
7	23757172	0.003644315	STK31	1372	10
19	41354626	0.000380228	CYP2A6	1315	1
13	99853715	0.000367647	UBAC2	1360	1
2	220072379	0.000730994	ZFAND2B	1368	2
8	87660061	0.000727802	CNGB3	1374	2
19	11096009	0.001092498	SMARCA4	1373	3
19	6147547	0.000726216	ACSBG2	1377	2
10	70248321	0.001089325	SLC25A16	1377	2
1	22333938	0.000735294	CELA3A	1360	1
19	42270114	0.000363372	CEACAM6	1376	1
12	54964124	0.00037092	PDE1B	1348	1
13	48562800	0.000364166	SUCLA2	1373	1
17	27825405	0.000729927	TAOK1	1370	2
7	139030305	0.001090909	C7orf55	1375	2
3	184064437	0.002552881	CLCN2	1371	7
8	120118101	0.000729395	COLEC10	1371	2
16	55844531	0.000733138	CES1	1364	2
19	44012935	0.000727273	ETHE1	1375	2
12	52404916	0.00037092	GRASP	1348	1
9	21008038	0.0003663	PTPLAD2	1365	1
6	29556484	0.000370645	OR2H2	1349	1
12	100042046	0.000732601	FAM71C	1365	2
22	39382085	0.000738552	APOBEC3B	1354	1
3	33174146	0.000733138	CRTAP	1364	2
3	141161822	0.003263234	ZBTB38	1379	9
16	67201108	0.000732601	HSF4	1365	2
15	101717843	0.000725163	CHSY1	1379	2
19	36642380	0.000368732	COX7A1	1356	1
11	2170399	0.000373134	INS-IGF2	1340	1
9	116018462	0.000725689	SLC31A1	1378	2
19	46998155	0.000368732	AC011484.1	1356	1
1	234041360	0.000363372	SLC35F3	1376	1
20	44506752	0.000363901	ZSWIM3	1374	1
1	1119328	0.000368189	TTLL10	1358	1
20	35293466	0.000736377	NDRG3	1358	2
14	102552670	0.000367647	HSP90AA1	1360	1
11	55927328	0.000363372	OR8K5	1376	1
17	1637133	0.000738552	WDR81	1354	2
11	67059093	0.001090116	ANKRD13D	1376	2
1	40767499	0.000372024	COL9A2	1344	1
7	99699347	0.000366569	AP4M1	1364	1
17	5392363	0.0003663	MIS12	1365	1
11	47594724	0.000363108	KBTBD4	1377	1

10	102753167	0.000738552	C10orf2	1354	1
20	44277933	0.000728332	WFDC11	1373	2
11	85411582	0.00688905	SYTL2	1379	16
17	7483646	0.000367918	CD68	1359	1
5	110081976	0.001090116	SLC25A46	1376	3
6	28269997	0.000364697	PGBD1	1371	1
11	7507132	0.000726216	OLFML1	1377	2
21	35279647	0.000367107	ATP5O	1362	1
10	104866347	0.000364964	NT5C2	1370	1
14	77873054	0.00036523	NOXRED1	1369	1
17	39183334	0.000733138	KRTAP1-5	1364	2
19	38876197	0.000740741	GGN	1350	2
4	68693051	0.000727273	TMPRSS11D	1375	2
5	71016342	0.000754148	CARTPT	1326	2
1	145663184	0.000728863	RNF115	1372	2
5	170736730	0.000757576	TLX3	1320	1
16	3350334	0.000725163	TIGD7	1379	2
14	77600171	0.00074184	ZDHHC22	1348	2
19	58640815	0.000365497	ZNF329	1368	1
3	194877274	0.000368189	XXYLT1	1358	1
17	4862898	0.000734214	SPAG7	1362	2
11	111177254	0.000369822	COLCA2	1352	1
12	48877086	0.00036523	C12orf54	1369	1
17	63637134	0.003988397	CEP112	1379	10
10	105349277	0.000366569	NEURL1	1364	1
1	25775369	0.000726744	TMEM57	1376	2
11	43351562	0.000363636	API5	1375	1
20	34312512	0.000727273	RBM39	1375	2
1	160466153	0.000365764	SLAMF6	1367	1
3	44803039	0.000377358	KIAA1143	1325	1
19	8387732	0.000738552	KANK3	1354	2
2	19553187	0.000372024	OSR1	1344	1
19	55967837	0.000377929	ISOC2	1323	1
1	2066783	0.000380518	PRKCZ	1314	1
10	15824224	0.001092498	FAM188A	1373	3
3	164709207	0.004713561	SI	1379	12
1	228294512	0.000363901	MRPL55	1374	1
4	187517814	0.009218289	FAT1	1356	25
10	14970031	0.000727273	DCLRE1C	1375	2
17	53042179	0.000366569	COX11	1364	1
4	81967664	0.000727273	BMP3	1375	2
2	62449506	0.000363108	B3GNT2	1377	1
12	21680124	0.00036846	C12orf39	1357	1
2	234835301	0.003625816	TRPM8	1379	10
17	34305222	0.000364431	CCL16	1372	1
11	126120479	0.001090909	FAM118B	1375	2
5	81460347	0.000368189	ATG10	1358	1
12	124111597	0.000367377	EIF2B1	1361	1

2	48808013	0.004350979	STON1-GTF2A1L	1379	10
6	160184071	0.000725689	ACAT2	1378	2
1	205592811	0.000726216	ELK4	1377	1
11	119103361	0.000725689	CBL	1378	2
4	155489555	0.000725689	FGB	1378	2
19	49174113	0.000375094	NTN5	1333	1
17	1456384	0.000740192	PITPNA	1351	2
11	94532922	0.003323486	AMOTL1	1354	9
9	125585326	0.000367107	PDCL	1362	1
12	123335793	0.002906977	HIP1R	1376	8
4	174213318	0.000728863	GALNT7	1372	2
6	132966896	0.000364431	TAAR1	1372	1
2	27592058	0.00074239	EIF2B4	1347	2
5	80762817	0.000367918	SSBP2	1359	1
11	1466222	0.001088534	BRSK2	1378	2
3	126255117	0.000366569	CHST13	1364	1
12	56500985	0.000363636	PA2G4	1375	1
22	24129366	0.000728332	SMARCB1	1373	2
15	35665766	0.000734214	DPH6	1362	2
10	81372106	0.000363901	SFTPA1	1374	1
16	87369846	0.000728332	FBXO31	1373	2
9	140510371	0.000364166	C9orf37	1373	1
19	52887549	0.000374813	ZNF880	1334	1
8	11058361	0.001116071	XKR6	1344	1
10	125434387	0.000726216	GPR26	1377	2
2	42990944	0.001119403	OXER1	1340	3
2	53999054	0.000726216	CHAC2	1377	2
14	81953786	0.000727802	SEL1L	1374	2
8	28196606	0.000363108	PNOC	1377	1
3	118905602	0.00181686	UPK1B	1376	3
11	62751440	0.000378215	SLC22A6	1322	1
10	100179851	0.000364166	HPS1	1373	1
19	39924346	0.001091703	RPS16	1374	2
19	49316792	0.000730994	HSD17B14	1368	2
1	145698980	0.000363372	CD160	1376	1
18	59713209	0.000737463	PIGN	1356	2
6	138726321	0.000363636	HEBP2	1375	1
13	52657445	0.003263234	NEK5	1379	9
17	35783653	0.000363372	TADA2A	1376	1
2	88828612	0.000363108	TEX37	1377	1
17	15909835	0.00036846	TTC19	1357	1
17	3919757	0.008339376	ZZEF1	1379	22
19	40541688	0.00074184	ZNF780B	1348	2
15	86076850	0.009427121	AKAP13	1379	22
2	161141324	0.000725689	RBMS1	1378	2
8	17794829	0.009955752	PCM1	1356	23
10	97752282	0.000726216	CC2D2B	1377	2
1	3542363	0.000371471	TPRG1L	1346	1

2	204571438	0.000363636	CD28	1375	1
3	93615504	0.000727802	PROS1	1374	2
1	155288499	0.000726216	FDPS	1377	2
14	37145527	0.000363372	PAX9	1376	1
1	168545921	0.000369276	XCL1	1354	1
1	101339763	0.000726216	EXTL2	1377	2
22	23235972	0.000371747	IGLL5	1345	1
1	63876855	0.000725689	ALG6	1378	2
1	111060103	0.001090116	KCNA10	1376	2
12	56863021	0.00036846	SPRYD4	1357	1
14	93684905	0.000727802	UBR7	1374	2
19	51871746	0.00037594	CLDND2	1330	1
8	141524477	0.000365497	CHRAC1	1368	1
19	51981920	0.000377358	CEACAM18	1325	1
8	74941212	0.000734214	LY96	1362	2
21	22656566	0.003267974	NCAM2	1377	9
18	61233933	0.00073046	SERPINB12	1369	2
8	145540908	0.000727273	DGAT1	1375	2
17	72588771	0.000729395	C17orf77	1371	1
22	30782690	0.00036846	RNF215	1357	1
19	51918527	0.000372024	SIGLEC10	1344	1
19	36255777	0.000738007	C19orf55	1355	2
2	42180351	0.000373413	C2orf91	1339	1
17	74060163	0.000725163	SRP68	1379	2
4	111542413	0.000370645	PITX2	1349	1
1	241724032	0.000726744	KMO	1376	2
3	44540810	0.000366032	ZNF852	1366	1
6	99883723	0.000725689	USP45	1378	2
11	61675575	0.000745156	RAB3IL1	1342	1
6	33179000	0.001099707	RING1	1364	2
5	442798	0.00073046	C5orf55	1369	2
14	50088585	0.000725163	MGAT2	1379	2
17	7081833	0.000375094	ASGR1	1333	1
3	68802040	0.000371195	FAM19A4	1347	1
9	4118513	0.0003663	GLIS3	1365	1
7	26685950	0.000379939	C7orf71	1316	1
7	142991353	0.000725689	CASP2	1378	2
9	137313627	0.000726216	RXRA	1377	2
20	50287728	0.00146092	ATP9A	1369	2
16	19528343	0.000365497	GDE1	1368	1
1	153274939	0.001461988	PGLYRP3	1368	2
16	839681	0.000740741	CHTF18	1350	2
12	96894671	0.003988397	C12orf55	1379	11
10	96701703	0.002175489	CYP2C9	1379	6
20	42247629	0.000363636	IFT52	1375	1
11	60557888	0.000726744	MS4A10	1376	2
6	50686846	0.000726216	TFAP2D	1377	2
13	31513882	0.000728332	TEX26	1373	2

9	125239401	0.001087745	OR1J1	1379	3
2	131812907	0.000371195	FAM168B	1347	1
1	6634773	0.002538071	TAS1R1	1379	7
5	131993909	0.000363901	IL13	1374	1
21	19168919	0.001087745	C21orf91	1379	3
12	56708935	0.000372301	CNPY2	1343	1
8	22972274	0.000364166	TNFRSF10C	1373	1
8	134475691	0.000730994	ST3GAL1	1368	2
1	102270107	0.000725163	OLFM3	1379	2
2	99767161	0.000363108	C2ORF15	1377	1
19	9226086	0.000725163	OR7G1	1379	2
6	136500167	0.000727802	PDE7B	1374	2
12	10978202	0.000725689	TAS2R10	1378	2
7	48080931	0.000738552	C7orf57	1354	2
10	135215077	0.000368189	MTG1	1358	1
14	105695190	0.000368189	BRF1	1358	1
12	1702040	0.00036846	FBXL14	1357	1
3	149629785	0.000378788	RNF13	1320	1
11	104912292	0.000725689	CARD16	1378	2
16	74339398	0.000729927	PSMD7	1370	2
20	5167424	0.000363108	CDS2	1377	1
9	95609216	0.000758725	ZNF484	1318	2
7	100486720	0.000367918	UFSP1	1359	1
20	48522803	0.000367107	SPATA2	1362	1
12	69985925	0.000727273	CCT2	1375	2
12	48258857	0.000368189	VDR	1358	1
14	105061479	0.000369549	TMEM179	1353	1
19	56538321	0.004797048	NLRP5	1355	12
9	100616402	0.000379363	FOXE1	1318	1
22	42221719	0.000364964	CCDC134	1370	1
7	73020029	0.000377929	MLXIPL	1323	1
19	9577398	0.002538071	ZNF560	1379	7
7	143657750	0.001087745	OR2F1	1379	2
4	155528019	0.000363108	FGG	1377	1
11	56230786	0.000379363	OR5M9	1318	1
6	52764862	0.000363372	GSTA3	1376	1
4	99397438	0.000725689	TSPAN5	1378	2
3	18393588	0.000727273	SATB1	1375	2
7	120593411	0.000729395	ING3	1371	2
6	28057245	0.000367107	ZNF165	1362	1
16	71319560	0.000733138	CMTR2	1364	2
9	115920011	0.000374813	SLC31A2	1334	1
19	4180890	0.00037594	SIRT6	1330	1
6	3737360	0.000725689	PXDC1	1378	2
11	89223786	0.000375375	NOX4	1332	1
11	63257818	0.000369276	HRASLS5	1354	1
15	41641373	0.000739098	NUSAP1	1353	2
10	91353648	0.000364697	PANK1	1371	1

17	42433400	0.000372856	FAM171A2	1341	1
1	66384430	0.001087745	PDE4B	1379	3
19	53793096	0.000364431	BIRC8	1372	1
1	158533058	0.000380228	OR6P1	1315	1
12	6560499	0.000369822	CD27	1352	1
3	38170854	0.000367107	ACAA1	1362	1
19	16770914	0.000367107	SMIM7	1362	1
10	82185651	0.000730994	FAM213A	1368	2
1	9107772	0.000363372	SLC2A5	1376	1
7	131195880	0.000362845	PODXL	1378	1
21	46078077	0.00036523	KRTAP12-3	1369	1
20	32212653	0.00073046	CBFA2T2	1369	2
19	46915358	0.000732064	CCDC8	1366	2
10	122349001	0.000368732	PPAPDC1A	1356	1
1	15792640	0.000364166	CELA2B	1373	1
22	51019915	0.000369276	CHKB	1354	1
12	7055072	0.000379651	C12orf57	1317	1
6	43466797	0.001459854	TJAP1	1370	2
14	55332098	0.000726744	GCH1	1376	2
19	4555519	0.000377929	SEMA6B	1323	1
1	75608826	0.000365497	LHX8	1368	1
16	88930145	0.00075188	PABPN1L	1330	2
17	79618141	0.00037092	PDE6G	1348	1
10	101370611	0.000372301	SLC25A28	1343	1
8	146033482	0.00074239	ZNF517	1347	2
20	37529306	0.000373413	PPP1R16B	1339	1
11	68456359	0.000363901	GAL	1374	1
8	97318780	0.000363901	PTDSS1	1374	1
2	79254967	0.000727273	REG3G	1375	2
9	17791309	0.000367918	SH3GL2	1359	1
11	64811892	0.000738007	SAC3D1	1355	2
14	96909151	0.000726744	AK7	1376	2
13	110434671	0.000375657	IRS2	1331	1
15	43658419	0.000726216	ZSCAN29	1377	2
5	74442867	0.003318584	ANKRD31	1356	8
7	139311438	0.000737463	HIPK2	1356	2
1	48260281	0.000369549	TRABD2B	1353	1
12	99007506	0.004713561	IKBIP	1379	7
19	49245171	0.000725163	IZUMO1	1379	2
4	128804658	0.004713561	PLK4	1379	11
10	124897033	0.000375657	HMX3	1331	1
1	159410102	0.000362845	OR10J1	1378	1
19	49464226	0.000739645	BAX	1352	2
5	76128905	0.000362845	F2RL1	1378	1
11	60073645	0.000366032	MS4A4A	1366	1
3	136664848	0.000362582	NCK1	1379	1
8	103663804	0.001088534	KLF10	1378	3
12	133697036	0.00036523	ZNF891	1369	1

11	821756	0.000728863	PNPLA2	1372	2
8	79650814	0.001092498	IL7	1373	2
11	10655517	0.000374251	MRVI1	1336	1
2	189406119	0.002178649	GULP1	1377	4
5	172195857	0.000368189	DUSP1	1358	1
22	44681359	0.000729395	KIAA1644	1371	2
2	166536055	0.000364166	CSRNP3	1373	1
20	35399318	0.000373972	DSN1	1337	1
11	9005500	0.000726216	NRIP3	1377	2
2	8999028	0.00037037	MBOAT2	1350	1
3	195959290	0.000725163	SLC51A	1379	2
22	50636362	0.0003663	TRABD	1365	1
1	207273214	0.000363901	C4BPB	1374	1
19	45910424	0.000362582	CD3EAP	1379	1
6	39040727	0.000363636	GLP1R	1375	1
19	15754786	0.000379939	CYP4F3	1316	1
9	104189826	0.0003663	ALDOB	1365	1
3	135870078	0.000363372	MSL2	1376	1
11	66613552	0.000366032	RCE1	1366	1
3	150931967	0.000738007	P2RY14	1355	2
3	129020932	0.000363901	HMCES	1374	1
6	84563422	0.000375657	RIPPLY2	1331	1
5	68568851	0.000727273	CDK7	1375	2
5	140605330	0.000365764	PCDHB14	1367	1
11	55735780	0.0003663	OR10AG1	1365	1
10	44874169	0.000380807	CXCL12	1313	1
11	3714596	0.004350979	NUP98	1379	12
1	27189788	0.000727273	SFN	1375	2
1	62960062	0.000732064	DOCK7	1366	2
1	44476431	0.00036523	SLC6A9	1369	1
3	123983376	0.007251632	KALRN	1379	20
7	65419185	0.000369276	VKORC1L1	1354	1
10	131640407	0.000365764	EBF3	1367	1
4	48371979	0.000737463	SLAIN2	1356	2
8	119452187	0.000364697	SAMD12	1371	1
10	98287227	0.001090909	TM9SF3	1375	3
11	94278303	0.000732601	FUT4	1365	2
2	240981402	0.000366569	PRR21	1364	1
14	24551799	0.000372024	NRL	1344	1
11	118895659	0.000372024	SLC37A4	1344	1
9	140320712	0.000364166	NOXA1	1373	1
16	21734225	0.000364166	OTOA	1373	1
9	4697817	0.000363636	CDC37L1	1375	1
14	70809443	0.000364166	COX16	1373	1
7	4947113	0.000376506	MMD2	1328	1
3	28380050	0.000363901	AZI2	1374	1
12	122190068	0.000726744	TMEM120B	1376	2
5	24491780	0.000728332	CDH10	1373	2

6	39880744	0.000363372	MOCS1	1376	1
5	141233965	0.000726744	PCDH1	1376	2
11	66811155	0.000728863	SYT12	1372	2
7	64439261	0.000363636	ZNF117	1375	1
12	52774171	0.000725689	KRT84	1378	2
17	7220825	0.004350979	NEURL4	1379	11
9	131847504	0.000363108	DOLPP1	1377	1
5	64181373	0.000368189	CWC27	1358	1
19	50164042	0.000377929	IRF3	1323	1
1	120254724	0.000726744	PHGDH	1376	2
12	117595820	0.000371471	FBXO21	1346	1
9	136389932	0.000367647	TMEM8C	1360	1
1	26879894	0.002904866	RPS6KA1	1377	8
22	41631245	0.000757002	CHADL	1321	2
9	130476483	0.000740741	PTRH1	1350	1
4	148407012	0.001087745	EDNRA	1379	3
1	152681742	0.000367107	LCE4A	1362	1
19	47653561	0.000369004	SAE1	1355	1
1	185143534	0.002900653	SWT1	1379	8
10	74034629	0.00037679	DDIT4	1327	1
5	140724528	0.002917578	PCDHGA3	1371	8
7	142749919	0.000737463	OR6V1	1356	2
16	8895684	0.000732601	PMM2	1365	2
20	34828331	0.000367647	AAR2	1360	1
10	120790023	0.000376506	NANOS1	1328	1
1	36437700	0.000727273	AGO3	1375	2
8	56663522	0.00037679	TMEM68	1327	1
13	48660486	0.000725689	MED4	1378	2
19	38028292	0.000735835	ZNF793	1359	2
12	122257352	0.000740192	SETD1B	1351	2
17	47376022	0.000367377	ZNF652	1361	1
10	79552299	0.00399419	DLG5	1377	10
3	9991508	0.000367647	PRRT3	1360	1
2	198948582	0.003988397	PLCL1	1379	7
19	12939754	0.000372301	RTBDN	1343	1
19	44535985	0.005076142	ZNF222	1379	10
2	20647471	0.000374251	RHOB	1336	1
3	41277238	0.000367107	CTNNB1	1362	1
12	133721107	0.000728863	CTD-2140B24.4	1372	2
5	16067606	0.000737463	MARCH11	1356	2
2	79349127	0.000369822	REG1A	1352	1
1	89575480	0.000726216	GBP2	1377	2
19	50139906	0.001092498	RRAS	1373	3
17	56620765	0.000365497	C17orf47	1368	1
11	5079977	0.000725689	OR52E2	1378	2
1	67474828	0.000727802	SLC35D1	1374	2
11	4616148	0.000365764	OR52I1	1367	1
22	25755957	0.000729395	LRP5L	1371	2

10	45878036	0.00037037	ALOX5	1350	1
5	175763766	0.000738007	SIMC1	1355	1
1	14068503	0.005801305	PRDM2	1379	16
4	110739125	0.00037092	GAR1	1348	1
22	47059015	0.000373134	GRAMD4	1340	1
18	56936279	0.000730994	RAX	1368	2
11	65111516	0.000365764	DPF2	1367	1
6	22287822	0.000368189	PRL	1358	1
6	110300422	0.000737463	GPR6	1356	2
9	36148641	0.000378788	GLIPR2	1320	1
20	54961495	0.000364697	AURKA	1371	1
19	42753786	0.00037037	ERF	1350	1
6	63921468	0.000380807	FKBP1C	1313	1
12	15132123	0.000367918	PDE6H	1359	1
16	30035051	0.000371471	C16orf92	1346	1
8	141461071	0.000365497	TRAPPC9	1368	1
1	1392508	0.000727802	ATAD3C	1374	2
5	175110256	0.000368732	HRH2	1356	1
22	50925854	0.000364964	MIOX	1370	1
6	49808659	0.000369822	CRISP1	1352	1
12	27849580	0.000367647	REP15	1360	1
1	29016626	0.000364431	GMEB1	1372	1
1	86172149	0.000363108	ZNHIT6	1377	1
1	39322598	0.000363901	RRAGC	1374	1
9	136272174	0.000729927	REXO4	1370	1
3	50339595	0.000364964	HYAL1	1370	1
5	140590664	0.00036846	PCDHB12	1357	1
7	150884097	0.000379939	ASB10	1316	1
22	32804801	0.000363108	RTCB	1377	1
4	109571932	0.00074239	OSTC	1347	2
17	34100404	0.000372578	MMP28	1342	1
1	159842899	0.000725163	CCDC19	1379	2
12	25034338	0.000371195	BCAT1	1347	1
6	10709282	0.000364964	PAK1IP1	1370	1
17	37898577	0.004350979	GRB7	1379	11
8	133036969	0.000372856	OC90	1341	1
12	91502357	0.001089325	LUM	1377	2
11	102962423	0.000379939	DCUN1D5	1316	1
12	63544481	0.000367377	AVPR1A	1361	1
7	100304724	0.000735294	POP7	1360	2
7	73115065	0.000367107	STX1A	1362	1
2	75879366	0.000735294	MRPL19	1360	2
19	35085171	0.000363901	SCGB2B2	1374	1
6	108645157	0.000364697	LACE1	1371	1
19	37582013	0.000363636	ZNF420	1375	1
2	95542317	0.000371195	TEKT4	1347	1
6	29079891	0.000372024	OR2J3	1344	1
5	174869423	0.000362582	DRD1	1379	1

11	64128981	0.000365764	RPS6KA4	1367	1
7	15666439	0.000365497	MEOX2	1368	1
15	69347713	0.000372578	NOX5	1342	1
9	14619019	0.00037037	ZDHHC21	1350	1
2	73435624	0.000746269	NOTO	1340	2
9	34614762	0.000364964	DCTN3	1370	1
4	71691841	0.000737463	GRSF1	1356	2
12	54856957	0.000363636	GTSF1	1375	1
21	27938593	0.000366032	CYYR1	1366	1
2	219529966	0.000380807	RNF25	1313	1
17	7536146	0.000379075	SHBG	1319	1
6	34214343	0.000740741	C6orf1	1350	2
12	133502146	0.000727273	ZNF605	1375	2
11	56954914	0.000368189	LRRC55	1358	1
1	161695612	0.000366032	FCRLB	1366	1
19	56001297	0.003687316	SSC5D	1356	8
14	55510990	0.000362845	SOCS4	1378	1
6	105526528	0.000363901	LIN28B	1374	1
4	147741361	0.000370096	TTC29	1351	1
1	1192407	0.000378501	UBE2J2	1321	1
18	12308747	0.000369822	TUBB6	1352	1
7	88424169	0.000737463	C7orf62	1356	2
7	75890710	0.000374251	SRRM3	1336	1
6	155579150	0.000725163	TFB1M	1379	2
6	31549388	0.000373692	LTB	1338	1
19	49934643	0.00037092	SLC17A7	1348	1
6	43034200	0.000371471	KLC4	1346	1
10	53822364	0.000728332	PRKG1	1373	2
17	18874788	0.000363901	FAM83G	1374	1
5	112227411	0.000368189	ZRSR1	1358	1
1	149904222	0.000368732	MTMR11	1356	1
11	57505333	0.000363108	TMX2	1377	1
10	75896489	0.000727273	AP3M1	1375	2
14	31348048	0.000726216	COCH	1377	2
6	10809121	0.000363636	MAK	1375	1
1	31842312	0.000380228	FABP3	1315	1
2	47044431	0.000378501	LINC01118	1321	1
3	99895200	0.000735835	CMSS1	1359	2
1	55253461	0.000363636	TTC22	1375	1
3	48481812	0.000378215	TMA7	1322	1
6	36839575	0.000363372	PPIL1	1376	1
17	47304052	0.00037092	PHOSPHO1	1348	1
16	58054138	0.000366032	USB1	1366	1
1	54395748	0.000726744	HSPB11	1376	2
9	88655656	0.000727273	GOLM1	1375	2
8	145535432	0.0003663	HSF1	1365	1
7	151093277	0.000373413	WDR86	1339	1
1	248031150	0.000371747	TRIM58	1345	1

19	51837179	0.001110289	VSIG10L	1351	2
17	42274976	0.0003663	ATXN7L3	1365	1
3	49899227	0.000371471	CAMKV	1346	1
5	75427748	0.002178649	SV2C	1377	4
15	37100527	0.000371471	C15orf41	1346	1
1	213186480	0.000729395	ANGEL2	1371	2
10	134219005	0.00036523	PWWP2B	1369	1
11	7817591	0.001470588	OR5P2	1360	2
8	42611350	0.000725689	CHRNA6	1378	2
6	73935094	0.000730994	RP11-257K9.8	1368	2
5	825361	0.000372578	ZDHHC11	1342	1
19	10677883	0.00036523	CDKN2D	1369	1
3	8794718	0.000373972	OXTR	1337	1
10	6521033	0.00036523	PRKCQ	1369	1
3	20043556	0.000370096	PP2D1	1351	1
20	43379116	0.000364431	KCNK15	1372	1
8	67012212	0.000364697	DNAJC5B	1371	1
1	52840493	0.000371471	ORC1	1346	1
10	1065570	0.000725163	IDI2	1379	2
9	107515205	0.000733138	NIPSNAP3A	1364	2
3	31667618	0.001092498	STT3B	1373	1
1	165620308	0.000725689	MGST3	1378	2
1	211840417	0.000373692	NEK2	1338	1
8	26240704	0.000371747	BNIP3L	1345	1
8	86129624	0.000374532	C8orf59	1335	1
19	54416125	0.000374813	CACNG7	1334	1
1	202104873	0.000729395	ARL8A	1371	2
1	236706336	0.00036523	LGALS8	1369	1
14	55618431	0.003628447	DLGAP5	1378	7
6	99790895	0.0003663	FAXC	1365	1
1	9777673	0.000372856	PIK3CD	1341	1
10	62551735	0.001094092	CDK1	1371	1
13	103381826	0.001107011	CCDC168	1355	3
20	42825732	0.000370645	OSER1	1349	1
9	140126538	0.000365764	SLC34A3	1367	1
9	139634469	0.000369822	LCN10	1352	1
8	144898728	0.000739098	PUF60	1353	2
8	92212985	0.000369276	LRRC69	1354	1
13	26620665	0.000726744	SHISA2	1376	2
19	35232924	0.000381388	ZNF181	1311	1
3	141290290	0.000364166	RASA2	1373	1
8	53451032	0.000364964	FAM150A	1370	1
5	14607544	0.000364697	FAM105A	1371	1
3	5215760	0.000363108	ARL8B	1377	1
9	95414911	0.000363636	IPPK	1375	1
6	138428425	0.000378215	PERP	1322	1
1	54534427	0.000369004	TCEANC2	1355	1
15	43689471	0.000365497	TUBGCP4	1368	1

17	643808	0.000364166	FAM57A	1373	1
11	65660649	0.000367647	FOSL1	1360	1
6	74161379	0.000370096	MB21D1	1351	1
16	2086339	0.00074184	SLC9A3R2	1348	2
15	66641758	0.0003663	TIPIN	1365	1
10	62634744	0.000725163	RHOBTB1	1379	2
11	111753891	0.000375657	C11orf1	1331	1
5	135229815	0.000727273	IL9	1375	2
16	23491164	0.000367647	GGA2	1360	1
17	26898123	0.000370645	PIGS	1349	1
5	140221387	0.000373692	PCDHA8	1338	1
2	96657407	0.000363636	ANKRD36C	1375	1
8	42828449	0.000377644	HOOK3	1324	1
13	39585517	0.003628447	PROSER1	1378	10
6	87993975	0.000725689	GJB7	1378	2
14	21502095	0.000363636	RNASE13	1375	1
15	59911678	0.000381388	GCNT3	1311	1
20	48431562	0.001089325	SLC9A8	1377	3
17	49731036	0.000367107	CA10	1362	1
17	74097431	0.000363636	EXOC7	1375	1
17	21202199	0.000725689	MAP2K3	1378	2
17	16120637	0.000364166	PIGL	1373	1
20	36014577	0.000363636	SRC	1375	1
20	55093295	0.000364697	RTFDC1	1371	1
2	97217101	0.000379651	ARID5A	1317	1
4	89198355	0.000363108	PPM1K	1377	1
6	26043514	0.000370096	HIST1H2BB	1351	1
5	180335902	0.000365497	BTNL8	1368	1
4	122725855	0.00037037	EXOSC9	1350	1
11	47587466	0.000367377	PTPMT1	1361	1
2	42671159	0.000363108	KCNG3	1377	1
2	172571907	0.000370096	DYNC1I2	1351	1
1	40434031	0.000364964	MFSD2A	1370	1
18	12107430	0.000371471	ANKRD62	1346	1
1	27709005	0.000373413	CD164L2	1339	1
19	20808177	0.000372301	ZNF626	1343	1
1	179965894	0.005162242	CEP350	1356	14
2	69271930	0.000725689	ANTXR1	1378	2
7	103048379	0.000363901	SLC26A5	1374	1
8	120859268	0.000363901	DSCC1	1374	1
8	41525850	0.003625816	ANK1	1379	8
17	17118616	0.000367377	FLCN	1361	1
1	20828661	0.000371747	MUL1	1345	1
2	183951793	0.000363372	DUSP19	1376	1
15	55516086	0.000725163	RAB27A	1379	2
8	143922642	0.000364697	GML	1371	1
20	32265255	0.000367918	E2F1	1359	1
14	65543249	0.000369549	MAX	1353	1

12	38714290	0.001451379	ALG10B	1378	3
5	100231421	0.000362845	ST8SIA4	1378	1
9	135759446	0.000367377	C9orf9	1361	1
16	55601014	0.00037594	CAPNS2	1330	1
2	113785587	0.000363901	IL36B	1374	1
11	1908780	0.000371471	LSP1	1346	1
6	35393710	0.000365497	PPARD	1368	1
2	74783699	0.000362845	DOK1	1378	1
2	217724658	0.000368189	TNP1	1358	1
15	40751019	0.004020468	BAHD1	1368	10
9	23704972	0.000368732	ELAVL2	1356	1
1	248004486	0.000734214	OR11L1	1362	2
20	55746159	0.000368189	BMP7	1358	1
5	169661200	0.000372301	C5orf58	1343	1
12	42840000	0.000380807	PPHLN1	1313	1
14	24632611	0.000363108	IRF9	1377	1
3	51737859	0.000371747	TEX264	1345	1
13	32878114	0.000370096	ZAR1L	1351	1
17	73847726	0.000366032	WBP2	1366	1
11	34910407	0.000727802	APIP	1374	2
12	133351759	0.00688905	GOLGA3	1379	17
1	229622155	0.000725689	NUP133	1378	2
13	111176448	0.000377074	RAB20	1326	1
18	44775149	0.00074239	SKOR2	1347	2
10	6001742	0.000734754	IL15RA	1361	2
12	64195950	0.000725163	TMEM5	1379	2
9	139658333	0.0003663	LCN15	1365	1
3	50413580	0.000370096	CACNA2D2	1351	1
3	12475569	0.000366569	PPARG	1364	1
7	132412590	0.000378501	AC009365.3	1321	1
2	182765427	0.004350979	SSFA2	1379	11
7	82996902	0.002900653	SEMA3E	1379	7
9	34971625	0.00036523	KIAA1045	1369	1
17	34958776	0.00073046	MRM1	1369	2
10	104572570	0.000369822	WBP1L	1352	1
1	217975170	0.0003663	SPATA17	1365	1
17	76113399	0.000378215	TMC6	1322	1
20	33077135	0.000366838	ITCH	1363	1
7	44155841	0.000371471	POLD2	1346	1
6	170140377	0.000363636	TCTE3	1375	1
4	175184080	0.000363108	FBXO8	1377	1
11	107832730	0.000363636	RAB39A	1375	1
11	58949440	0.001123596	DTX4	1335	2
19	1623988	0.000378501	TCF3	1321	1
3	9982638	0.000731529	CRELD1	1367	2
1	55472713	0.000373972	BSND	1337	1
1	225965679	0.000376506	SRP9	1328	1
1	110562175	0.000369549	AHCYL1	1353	1

1	228033800	0.000363901	PRSS38		1374	1
6	46630234	0.000726744	SLC25A27		1376	2
11	8940944	0.000362582	AKIP1		1379	1
1	227935720	0.00036523	SNAP47		1369	1
9	125391108	0.000366838	OR1B1		1363	1
22	19709197	0.000377358		Sep-05	1325	1
1	90048811	0.000725689	LRRC8B		1378	2
8	30695305	0.007251632	TEX15		1379	18
4	155462020	0.000364431	PLRG1		1372	1
1	31902334	0.000364431	AC114494.1		1372	1
7	66103382	0.000750188	KCTD7		1333	1
10	3823790	0.000369549	KLF6		1353	1
19	18724724	0.000735294	TMEM59L		1360	2
9	36211727	0.000369004	CLTA		1355	1
16	733035	0.000738007	JMJD8		1355	2
12	8234906	0.000755287	NECAP1		1324	1
2	55863395	0.00036523	PNPT1		1369	1
6	137245652	0.000378501	SLC35D3		1321	1
10	103427669	0.000367377	FBXW4		1361	1
12	123738505	0.000379363	C12orf65		1318	1
10	118666162	0.000363636	KIAA1598		1375	1
12	10010152	0.000377358	CLEC2B		1325	1
7	89793816	0.000362845	STEAP1		1378	1
17	73262984	0.00037679	MIF4GD		1327	1
9	125797752	0.000373413	GPR21		1339	1
13	51921353	0.000369549	SERPINE3		1353	1
2	27306523	0.000365764	EMILIN1		1367	1
18	3879839	0.000374251	DLGAP1		1336	1
1	24840977	0.000363901	RCAN3		1374	1
6	116574164	0.000737463	TSPYL4		1356	2
19	19042425	0.000379651	HOMER3		1317	1
6	26091126	0.000370096	HFE		1351	1
12	54576232	0.00037594	SMUG1		1330	1
5	138724267	0.000379075	MZB1		1319	1
20	1617097	0.00036846	SIRPG		1357	1
20	44351121	0.000371747	SPINT4		1345	1
17	7296224	0.000372856	TMEM256-PLSCR3		1341	1
1	173616140	0.000365764	ANKRD45		1367	1
2	152112119	0.000379651	RBM43		1317	1
13	51950309	0.000374251	INTS6		1336	1
11	62065080	0.000376506	SCGB1D4		1328	1
14	20978798	0.000380518	RNASE10		1314	1
12	53041596	0.000372024	KRT2		1344	1
5	140052973	0.000366838	DND1		1363	1
14	24779793	0.000375375	LTB4R2		1332	1
1	247021101	0.000727273	AHCTF1		1375	2
11	71903335	0.000727802	FOLR1		1374	2
4	108831630	0.000373692	SGMS2		1338	1

17	61775934	0.000372301	LIMD2	1343	1
19	31770448	0.000754717	TSHZ3	1325	2
7	16607117	0.000378788	LRRC72	1320	1
11	5248009	0.000364431	HBB	1372	1
3	10028320	0.000364964	EMC3	1370	1
2	97368714	0.000371747	FER1L5	1345	1
7	129045708	0.000725689	AHCYL2	1378	2
11	115099850	0.000375094	CADM1	1333	1
4	17510898	0.000364964	QDPR	1370	1
12	56077807	0.000369004	METTL7B	1355	1
9	34485213	0.004350979	DNAI1	1379	12
11	5809623	0.000725163	OR52N1	1379	2
20	9364863	0.000725689	PLCB4	1378	2
17	10531984	0.004350979	MYH3	1379	10
14	76012842	0.000372578	BATF	1342	1
18	71796728	0.000367647	FBXO15	1360	1
13	50586857	0.000366838	TRIM13	1363	1
9	123628328	0.000369004	PHF19	1355	1
17	32647405	0.00036523	CCL8	1369	1
6	170889133	0.000367107	PDCD2	1362	1
6	118635404	0.000369822	SLC35F1	1352	1
17	38290588	0.000372856	MSL1	1341	1
12	675160	0.000363372	NINJ2	1376	1
4	78082868	0.000369004	CCNG2	1355	1
20	209999	0.000363108	DEFB129	1377	1
2	97544153	0.00037679	FAM178B	1327	1
20	6759227	0.000366569	BMP2	1364	1
7	100071967	0.00037594	TSC22D4	1330	1
9	96214630	0.000380518	FAM120AOS	1314	1
6	72011462	0.000370096	OGFRL1	1351	1
6	36652273	0.000372301	CDKN1A	1343	1
12	6442550	0.000375094	TNFRSF1A	1333	1
19	56163860	0.000368732	CCDC106	1356	1
1	95609500	0.000730994	TMEM56	1368	2
1	95609500	0.000730994	TMEM56-RWDD3	1368	2
3	63640457	0.001087745	SNTN	1379	3
19	49116526	0.000380807	FAM83E	1313	1
4	187455154	0.000371747	MTNR1A	1345	1
9	6254461	0.000369276	IL33	1354	1
12	18234130	0.000369822	RERGL	1352	1
15	52254625	0.000725163	LEO1	1379	2
6	38029414	0.000362845	ZFAND3	1378	1
16	69375095	0.000368189	NIP7	1358	1
7	96339053	0.000373134	SHFM1	1340	1
15	93588689	0.000369822	RGMA	1352	1
1	27699640	0.000368189	FCN3	1358	1
19	44111890	0.000736377	ZNF428	1358	2
19	58319470	0.000363901	ZNF552	1374	1

17	39340763	0.000367647	KRTAP4-1	1360	1
14	57700594	0.000369276	EXOC5	1354	1
12	121154479	0.000726744	UNC119B	1376	2
4	26490996	0.000752445	CCKAR	1329	2
6	7393453	0.002902758	RIOK1	1378	7
9	101546305	0.00037092	ANKS6	1348	1
10	134145061	0.000369276	STK32C	1354	1
22	18210079	0.000364166	BCL2L13	1373	1
3	170723733	0.000366569	SLC2A2	1364	1
4	20726459	0.000371471	PACRGL	1346	1
19	46815792	0.000366569	HIF3A	1364	1
1	31194506	0.000364964	MATN1	1370	1
12	4919465	0.000363108	KCNA6	1377	1
3	129270142	0.000370096	H1FOO	1351	1
1	33583657	0.000369822	ADC	1352	1
17	79846200	0.000370645	ALYREF	1349	1
7	45217019	0.000369276	RAMP3	1354	1
5	115428353	0.000364166	COMMD10	1373	1
17	17931589	0.000366569	ATPAF2	1364	1
11	94040647	0.000368732	FOLR4	1356	1
3	185416094	0.000373134	IGF2BP2	1340	1
17	30179846	0.000366838	COPRS	1363	1
19	51875671	0.000368732	NKG7	1356	1
5	141016121	0.000366569	HDAC3	1364	1
10	46965017	0.00037037	SYT15	1350	1
12	49373438	0.000369549	WNT1	1353	1
7	103969390	0.000734214	LHFPL3	1362	2
16	24800929	0.006163887	TNRC6A	1379	17
9	130165993	0.000362845	SLC2A8	1378	1
7	30795178	0.000364166	INMT	1373	1
12	50356081	0.000732064	AQP5	1366	2
16	23767048	0.001458789	CHP2	1371	3
8	38385887	0.000363636	C8orf86	1375	1
3	183551322	0.001090116	PARL	1376	2
10	75003267	0.000379075	DNAJC9	1319	1
9	33248445	0.000366032	SPINK4	1366	1
21	46197318	0.000364964	UBE2G2	1370	1
6	3273530	0.000367107	SLC22A23	1362	1
16	27445695	0.000369004	IL21R	1355	1
19	19766349	0.00074184	ATP13A1	1348	2
12	57409497	0.000746269	TAC3	1340	1
17	74157701	0.000734754	RNF157	1361	2
2	228855840	0.006163887	SPHKAP	1379	17
18	43420174	0.000363372	SIGLEC15	1376	1
10	65357872	0.000370096	REEP3	1351	1
8	39775642	0.000370096	IDO1	1351	1
1	40131203	0.000376223	NT5C1A	1329	1
10	71255360	0.000364697	TSPAN15	1371	1

16	2090195	0.000370096	NTHL1	1351	1
3	43073989	0.000373413	FAM198A	1339	1
15	83523488	0.000379075	HOMER2	1319	1
17	33749067	0.000726744	SLFN12	1376	2
12	21665257	0.000364697	GOLT1B	1371	1
19	44039636	0.000369004	ZNF575	1355	1
11	17388616	0.000369276	NCR3LG1	1354	1
8	23708888	0.000726744	STC1	1376	2
5	176450170	0.000362582	ZNF346	1379	1
10	15008605	0.000368732	MEIG1	1356	1
12	8687271	0.000363636	CLEC4E	1375	1
20	62192265	0.003991292	HELZ2	1378	10
1	156264521	0.000364166	C1orf85	1373	1
1	236645909	0.000368732	EDARADD	1356	1
3	38565755	0.000364166	EXOG	1373	1
19	54609373	0.000370645	NDUFA3	1349	1
17	78447115	0.000374532	NPTX1	1335	1
1	168513141	0.000378788	XCL2	1320	1
6	35543651	0.000725163	FKBP5	1379	2
20	259935	0.000376506	C20orf96	1328	1
12	58201137	0.000363108	AVIL	1377	1
9	100862433	0.000362845	TRIM14	1378	1
1	231678300	0.000365497	TSNAX	1368	1
17	36064933	0.000726744	HNF1B	1376	2
13	53419605	0.000725163	PCDH8	1379	2
16	69187535	0.000729395	CIRH1A	1371	2
19	10394792	0.000747384	ICAM1	1338	1
11	94229941	0.000364697	ANKRD49	1371	1
21	33975497	0.00036523	C21orf59	1369	1
17	80622394	0.000374532	RAB40B	1335	1
18	5291720	0.000362845	ZBTB14	1378	1
15	90809008	0.000363372	NGRN	1376	1
17	42991143	0.000364166	GFAP	1373	1
17	4701635	0.000363372	PSMB6	1376	1
2	223168985	0.000368189	CCDC140	1358	1
20	49575674	0.000373413	MOCS3	1339	1
9	15486870	0.000367647	PSIP1	1360	1
19	33696578	0.000374532	LRP3	1335	1
1	162372557	0.000362845	SH2D1B	1378	1
1	75204440	0.000364964	TYW3	1370	1
6	149901837	0.00036523	GINM1	1369	1
20	42885967	0.000367647	GDAP1L1	1360	1
12	10217403	0.000364166	CLEC9A	1373	1
15	42821931	0.000365497	SNAP23	1368	1
1	165513540	0.000725163	LRRC52	1379	2
9	21409666	0.000363636	IFNA8	1375	1
15	54006669	0.000363901	WDR72	1374	1
19	17514589	0.000733138	BST2	1364	1

11	55681707	0.000364431	OR5W2	1372	1
11	61213466	0.000364964	SDHAF2	1370	1
2	25013321	0.000368189	PTRHD1	1358	1
3	15512105	0.000725163	COLQ	1379	2
7	155090372	0.000374813	INSIG1	1334	1
22	38341122	0.000365497	C22orf23	1368	1
19	54946751	0.000377358	TTYH1	1325	1
17	34340898	0.000365764	CCL23	1367	1
2	231327235	0.000363372	SP100	1376	1
6	57061318	0.000363372	RAB23	1376	1
7	129944337	0.000365764	CPA4	1367	1
11	63312292	0.000364431	RARRES3	1372	1
1	179526220	0.000364964	NPHS2	1370	1
16	5123160	0.000363372	ALG1	1376	1
2	105990179	0.00037594	FHL2	1330	1
6	90604300	0.000366569	GJA10	1364	1
19	41186885	0.000371195	NUMBL	1347	1
11	124135480	0.000369822	OR8G5	1352	1
20	4229250	0.000377644	ADRA1D	1324	1
19	33321576	0.000366032	SLC7A9	1366	1
17	45905919	0.0003663	MRPL10	1365	1
3	113955530	0.000364431	ZNF80	1372	1
6	139563944	0.004350979	TXLNB	1379	11
1	156568259	0.000362845	GPATCH4	1378	1
17	74673769	0.00036523	MXRA7	1369	1
19	36018659	0.000725163	SBSN	1379	1
22	38046605	0.000363901	SH3BP1	1374	1
6	7601573	0.000380518	SNRNP48	1314	1
3	128651688	0.000740192	RP11-723O4.6	1351	2
11	65144318	0.000362845	SLC25A45	1378	1
11	56344308	0.000368732	OR5M10	1356	1
5	140515680	0.000368732	PCDHB5	1356	1
12	113835170	0.0003663	SDS	1365	1
16	67178751	0.000369822	C16orf70	1352	1
12	11338821	0.000365497	TAS2R42	1368	1
7	37988453	0.000364697	EPDR1	1371	1
15	32323233	0.000364697	CHRNA7	1371	1
11	117161257	0.000363372	BACE1	1376	1
5	131822516	0.001451379	IRF1	1378	2
1	163117220	0.00036523	RGS5	1369	1
11	85989533	0.000363901	EED	1374	1
6	112015884	0.000362845	FYN	1378	1
8	15398048	0.000378215	TUSC3	1322	1
7	142460303	0.000378788	PRSS1	1320	1
22	38247292	0.000376506	EIF3L	1328	1
4	1720018	0.000374813	TMEM129	1334	1
10	12191665	0.000362845	SEC61A2	1378	1
17	30648036	0.00037092	RHBDL3	1348	1

6	90087498	0.000363901	RRAGD	1374	1
7	156798503	0.000367107	MNX1	1362	1
6	13599385	0.000363108	SIRT5	1377	1
8	82370640	0.000363372	FABP9	1376	1
1	2340192	0.000375094	PEX10	1333	1
5	172590771	0.000363372	BNIP1	1376	1
10	76855368	0.000728863	DUSP13	1372	2
19	2290120	0.000371195	LINGO3	1347	1
1	206319119	0.000725163	CTSE	1379	2
9	79117653	0.000362582	GCNT1	1379	1
3	159606631	0.000362845	IQCJ-SCHIP1	1378	1
3	159606631	0.000362845	SCHIP1	1378	1
19	35617798	0.000377644	LGI4	1324	1
11	132184525	0.000367377	NTM	1361	1
19	7812243	0.00036523	CD209	1369	1
19	48244394	0.000369004	EHD2	1355	1
19	46443210	0.000379651	NOVA2	1317	1
17	76142975	0.000739098	C17orf99	1353	2
9	113091553	0.000371471	TXNDC8	1346	1
1	214537939	0.002900653	PTPN14	1379	8
14	65398942	0.000364431	CHURC1	1372	1
6	149700517	0.000362582	TAB2	1379	1
14	21238751	0.000363636	EDDM3B	1375	1
6	53140014	0.000366569	ELOVL5	1364	1
10	94109442	0.00036846	MARCH5	1357	1
2	99812115	0.000373134	MRPL30	1340	1
12	111087978	0.000379075	HVCN1	1319	1
7	99688709	0.000363372	COPS6	1376	1
21	43524079	0.000363901	C21orf128	1374	1
16	3073267	0.000376506	HCFC1R1	1328	1
7	37956001	0.000365497	SFRP4	1368	1
6	19838833	0.000373413	ID4	1339	1
10	111879295	0.000726216	ADD3	1377	2
20	30789770	0.000368189	PLAGL2	1358	1
13	29236601	0.000363372	POMP	1376	1
7	128097379	0.000362845	HILPDA	1378	1
11	5969008	0.000365497	OR56A3	1368	1
8	86193459	0.000363108	CA13	1377	1
3	44906583	0.000374813	TMEM42	1334	1
19	13255334	0.000733676	STX10	1363	2
11	33902805	0.000747943	AC132216.1	1337	2
19	47764050	0.000731529	CCDC9	1367	2
17	7762009	0.000365497	CYB5D1	1368	1
21	31538536	0.000363372	CLDN17	1376	1
3	32483396	0.000369822	CMTM7	1352	1
2	74369419	0.000363901	BOLA3	1374	1
11	122665499	0.001452433	UBASH3B	1377	2
6	30029741	0.000728332	ZNRD1	1373	2

18	21293950	0.008701958	LAMA3	1379	23
7	142605747	0.004713561	TRPV5	1379	8
1	861368	0.000371747	SAMD11	1345	1
12	72058320	0.000379939	THAP2	1316	1
3	38888652	0.003628447	SCN11A	1378	9
6	170105412	0.001090116	PHF10	1376	3
8	104394778	0.000364166	CTHRC1	1373	1
2	166740334	0.003988397	TTC21B	1379	11
1	35260726	0.000370096	GJA4	1351	1
2	219029108	0.000369276	CXCR1	1354	1
1	25669552	0.000364964	TMEM50A	1370	1
19	3909578	0.00037679	ATCAY	1327	1
17	46673961	0.000377644	HOXB6	1324	1
14	63747764	0.000363901	RHOJ	1374	1
3	127788458	0.000365764	SEC61A1	1367	1
4	75675813	0.000364431	BTC	1372	1
17	46688136	0.00037092	HOXB7	1348	1
16	69402355	0.000364166	TERF2	1373	1
19	3823273	0.000372024	ZFR2	1344	1
14	80669330	0.000370096	DIO2	1351	1
1	115118336	0.000725689	BCAS2	1378	2
2	71058902	0.000738552	CD207	1354	2
8	48650030	0.000379939	CEBPD	1316	1
4	1165139	0.000738007	SPON2	1355	2
2	210880723	0.000725689	RPE	1378	2
3	13916597	0.000365497	WNT7A	1368	1
3	62358312	0.000372856	FEZF2	1341	1
8	23428961	0.000369276	SLC25A37	1354	1
2	58313523	0.004350979	VRK2	1379	9
17	42268007	0.000364166	TMUB2	1373	1
10	112257955	0.000725163	DUSP5	1379	2
15	63881144	0.000367107	USP3	1362	1
11	104768104	0.000368732	CASP12	1356	1
16	3283632	0.000727802	ZNF200	1374	2
3	77600057	0.003625816	ROBO2	1379	8
19	23836158	0.0003663	ZNF675	1365	1
1	226075183	0.000372578	LEFTY1	1342	1
17	40453466	0.000364166	STAT5A	1373	1
12	56755143	0.000371195	APOF	1347	1
9	132854542	0.00036523	GPR107	1369	1
11	62373182	0.000729927	EML3	1370	2
3	69104665	0.001090909	UBA3	1375	2
18	40503602	0.000370645	RIT2	1349	1
14	78177202	0.000367107	SLIRP	1362	1
7	72952320	0.000734754	BCL7B	1361	2
5	179467491	0.000367107	RNF130	1362	1
19	18541661	0.000381388	SSBP4	1311	1
5	32173977	0.000377644	GOLPH3	1324	1

5	179044882	0.000364697	HNRNPH1	1371	1
13	111371935	0.000376223	ING1	1329	1
5	141357968	0.000363901	RNF14	1374	1
10	104230636	0.000365764	TMEM180	1367	1
19	1465918	0.000378788	APC2	1320	1
2	174946724	0.000369822	OLA1	1352	1
1	6525592	0.000378215	TNFRSF25	1322	1
17	43515249	0.00036846	PLEKHM1	1357	1
13	50590036	0.0003663	KCNRG	1365	1
8	82392807	0.000363901	FABP4	1374	1
2	138727734	0.0003663	HNMT	1365	1
16	28515209	0.000368732	IL27	1356	1
12	13366617	0.000363108	EMP1	1377	1
8	42251758	0.00037679	VDAC3	1327	1
8	28588854	0.000366032	EXTL3	1366	1
6	42929965	0.00037679	GNMT	1327	1
17	41365092	0.000725689	TMEM106A	1378	2
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1	153410789	0.000362845	S100A7L2	1378	1
17	1340107	0.000363901	CRK	1374	1
15	41120686	0.000367647	PPP1R14D	1360	1
18	73139406	0.000362845	SMIM21	1378	1
16	15501857	0.000381098	MPV17L	1312	1
16	138797	0.00037679	NPRL3	1327	1
14	104000902	0.000374813	TRMT61A	1334	1
12	125509663	0.000363901	BRI3BP	1374	1
17	27076422	0.000364166	TRAF4	1373	1
17	69414	0.000364431	RPH3AL	1372	1
3	32995693	0.000364431	CCR4	1372	1
13	32978509	0.000378501	N4BP2L1	1321	1
7	44444101	0.000369004	NUDCD3	1355	1
2	208986578	0.000364166	CRYGD	1373	1
4	105412328	0.000367918	CXXC4	1359	1
8	74235247	0.001822157	RDH10	1372	5
14	20917172	0.000725689	OSGEP	1378	2
5	162869147	0.000377074	CCNG1	1326	1
8	26221240	0.000372578	PPP2R2A	1342	1
1	44365382	0.000730994	ST3GAL3	1368	2
1	159889080	0.00037092	TAGLN2	1348	1
17	41847062	0.000371747	DUSP3	1345	1
9	117390524	0.000373413	C9orf91	1339	1
7	87838713	0.000364431	SRI	1372	1
3	196675284	0.000370645	PIGZ	1349	1
13	24234509	0.000364166	TNFRSF19	1373	1
3	49463782	0.000367918	NICN1	1359	1
9	140471998	0.000732064	DPH7	1366	1
10	93011078	0.000368732	PCGF5	1356	1
10	126370867	0.000371471	FAM53B	1346	1

7	80457987	0.00036846	SEMA3C	1357	1
7	150936721	0.0003663	SMARCD3	1365	1
4	177142721	0.000368189	ASB5	1358	1
1	109148870	0.000364964	FAM102B	1370	1
5	137666794	0.000364964	CDC25C	1370	1
14	74874602	0.000372024	SYNDIG1L	1344	1
15	59806532	0.000370096	FAM81A	1351	1
7	97841964	0.000380807	BHLHA15	1313	1
12	91348005	0.000377074	CCER1	1326	1
7	1273191	0.000378501	UNCX	1321	1
17	33768354	0.000727802	SLFN13	1374	2
17	48226788	0.000372301	PPP1R9B	1343	1
5	14769265	0.000371471	ANKH	1346	1
1	47882322	0.000369276	FOXE3	1354	1
8	14412428	0.0003663	SGCZ	1365	1
10	14938960	0.000364964	SUV39H2	1370	1
16	58148817	0.000363636	C16orf80	1375	1
16	11375069	0.000363108	PRM1	1377	1
1	32627990	0.000363372	KPNA6	1376	1
21	44592353	0.000370645	CRYAA	1349	1
3	149469109	0.000375375	COMMD2	1332	1
1	42922410	0.000369276	PPCS	1354	1
4	145916671	0.000728863	ANAPC10	1372	2
2	241835224	0.000373972	C2orf54	1337	1
15	81614762	0.000364697	STARD5	1371	1
6	24178677	0.00073046	DCDC2	1369	1
3	108635055	0.000371747	GUCA1C	1345	1
19	19625737	0.000375657	TSSK6	1331	1
5	134346174	0.000364697	CATSPER3	1371	1
19	35800945	0.000369276	MAG	1354	1
4	165962215	0.000725689	TRIM60	1378	2
3	186257230	0.000366032	CRYGS	1366	1
21	31654946	0.000381098	KRTAP24-1	1312	1
1	44401668	0.000377074	ARTN	1326	1
2	12863536	0.000367377	TRIB2	1361	1
3	187447049	0.000369549	BCL6	1353	1
20	49493043	0.000364431	BCAS4	1372	1
6	159463187	0.000375657	TAGAP	1331	1
19	44303906	0.000366569	LYPD5	1364	1
11	64367229	0.000366838	SLC22A12	1363	1
4	70715228	0.000364431	SULT1E1	1372	1
7	104782937	0.000369822	SRPK2	1352	1
11	104817856	0.00036523	CASP4	1369	1
10	95335969	0.000364697	FFAR4	1371	1
19	12902668	0.000372856	JUNB	1341	1
22	42605742	0.003625816	TCF20	1379	10
3	62306165	0.000363108	C3orf14	1377	1
5	140073852	0.000363901	HARS2	1374	1

10	133769243	0.000732064	PPP2R2D	1366	1
5	93076710	0.00037037	POU5F2	1350	1
19	42804360	0.000366032	PAFAH1B3	1366	1
2	217124286	0.000369004	MARCH4	1355	1
20	3765396	0.000367918	CENPB	1359	1
7	91747924	0.000372578	CYP51A1	1342	1
19	15082666	0.00036846	SLC1A6	1357	1
8	40011236	0.000364964	C8orf4	1370	1
19	49110474	0.000380228	SPACA4	1315	1
15	90892345	0.000369004	GABARAPL3	1355	1
2	25038464	0.000363108	CENPO	1377	1
3	49946796	0.003263234	MON1A	1379	7
11	9445351	0.000728863	IPO7	1372	2
1	17743046	0.000374813	RCC2	1334	1
14	31542175	0.00037037	AP4S1	1350	1
17	79893338	0.000380228	PYCR1	1315	1
6	29068930	0.000370096	OR2J1	1351	1
13	50243925	0.000363372	EBPL	1376	1
6	25851097	0.000364697	SLC17A3	1371	1
8	68396928	0.000367918	CPA6	1359	1
22	29444417	0.0003663	ZNRF3	1365	1
10	77160922	0.000373692	ZNF503	1338	1
1	21889604	0.000368189	ALPL	1358	1
6	73935094	0.0003663	KHDC1L	1365	1
6	35443747	0.000370645	TEAD3	1349	1
12	124799036	0.000378501	FAM101A	1321	1
6	170873691	0.000364697	TBP	1371	1
11	63320449	0.000363108	HRASLS2	1377	1
16	1822476	0.000376223	MRPS34	1329	1
1	173776587	0.000368189	CENPL	1358	1
5	195386	0.000374532	LRRC14B	1335	1
2	110373339	0.00037092	SOWAHC	1348	1
1	115576594	0.000363636	TSHB	1375	1
15	75132910	0.002949853	ULK3	1356	7
14	21526330	0.000725163	RNASE8	1379	2
9	26884839	0.000363901	CAAP1	1374	1
21	34877886	0.002900653	GART	1379	8
2	228228522	0.000365764	TM4SF20	1367	1
19	53058192	0.000368732	ZNF808	1356	1
1	205052783	0.000362845	TMEM81	1378	1
11	60161288	0.000729927	MS4A7	1370	1
1	44128646	0.000364431	KDM4A	1372	1
7	30540210	0.000362845	GGCT	1378	1
9	86258552	0.000380228	IDNK	1315	1
12	330613	0.000369822	SLC6A13	1352	1
12	75741450	0.00036523	GLIPR1L1	1369	1
6	29523889	0.000366032	UBD	1366	1
8	11704597	0.000367647	CTSB	1360	1

7	112129907	0.000363108	LSMEM1	1377	1
10	88417802	0.000366032	OPN4	1366	1
1	202915675	0.000363372	ADIPOR1	1376	1
19	51380185	0.00036523	KLK2	1369	1
11	89939410	0.000368189	CHORDC1	1358	1
6	109691650	0.000366032	CD164	1366	1
2	70315045	0.000368189	PCBP1	1358	1
16	66565348	0.000366032	TK2	1366	1
11	4608139	0.000367107	OR52I2	1362	1
9	90585743	0.000379075	CDK20	1319	1
11	18195431	0.000365497	MRGPRX4	1368	1
17	40280763	0.000365764	RAB5C	1367	1
19	55672142	0.000373692	DNAAF3	1338	1
6	34498065	0.000370096	PACSIN1	1351	1
19	55175430	0.000374251	LILRB4	1336	1
12	11139381	0.000366032	TAS2R50	1366	1
14	21936529	0.000740741	RAB2B	1350	1
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8	42403913	0.000370645	SMIM19	1349	1
19	18561728	0.000373972	ELL	1337	1
19	7734286	0.000364697	RETN	1371	1
5	132009778	0.000362845	IL4	1378	1
6	155596912	0.000363108	CLDN20	1377	1
16	57394436	0.000367107	CCL22	1362	1
2	113514306	0.000725689	CKAP2L	1378	2
10	79795359	0.00036523	RPS24	1369	1
16	3293293	0.003625816	MEFV	1379	9
11	61558072	0.000373134	TMEM258	1340	1
12	1943573	0.000375375	LRTM2	1332	1
21	40765165	0.000367107	WRB	1362	1
1	1222248	0.000369822	SCNN1D	1352	1
16	86612745	0.00037679	FOXL1	1327	1
15	79177352	0.000364964	MORF4L1	1370	1
3	48476293	0.000366569	CCDC51	1364	1
11	46407624	0.000373972	CHRM4	1337	1
9	138415838	0.00037092	LCN1	1348	1
1	55183237	0.000369822	TTC4	1352	1
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9	20764891	0.007976795	FOCAD	1379	20
7	107214147	0.000363372	DUS4L	1376	1
19	58187685	0.000364431	ZSCAN4	1372	1
10	134261521	0.000730994	C10orf91	1368	2
2	178098043	0.0003663	NFE2L2	1365	1
7	141537851	0.000363372	PRSS37	1376	1
12	4543494	0.000364431	FGF6	1372	1

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11	65409991	0.000379075	SIPA1	1319	1
19	46198729	0.000366032	QPCTL	1366	1
2	10937257	0.000363108	PDIA6	1377	1
9	139686409	0.000373692	TMEM141	1338	1
1	224588713	0.000373972	WDR26	1337	1
17	34854178	0.003646973	MYO19	1371	10
1	20469953	0.000363372	PLA2G2F	1376	1
3	148885679	0.000366838	HPS3	1363	1
1	78470877	0.00037092	DNAJB4	1348	1
5	180582781	0.000363901	OR2V2	1374	1
2	27850323	0.000371747	CCDC121	1345	1
9	125424762	0.000362582	OR1L1	1379	1
19	51301432	0.000367377	C19orf48	1361	1
11	118107815	0.000363901	MPZL3	1374	1
3	97852263	0.000378788	OR5H1	1320	1
4	44450099	0.000378215	KCTD8	1322	1
19	14591172	0.000381388	GIPC1	1311	1
12	53895966	0.000372578	TARBP2	1342	1
6	31084527	0.00074239	CDSN	1347	2
1	114133250	0.003267974	MAGI3	1377	9
10	93586930	0.002900653	TNKS2	1379	8
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17	66533845	0.000374251	FAM20A	1336	1
3	190147445	0.000364697	TMEM207	1371	1
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19	54140226	0.000363108	DPRX	1377	1
19	40722137	0.000369004	TTC9B	1355	1
14	97321598	0.000367647	VRK1	1360	1
1	198222215	0.000362582	NEK7	1379	1
11	78369310	0.008849558	TENM4	1356	21
1	19652823	0.000751315	PQLC2	1331	2
17	34313692	0.000378501	CTB-186H2.3	1321	1
5	176729605	0.000363636	RAB24	1375	1
22	39176989	0.000368732	DNAL4	1356	1
19	57803584	0.000364697	ZNF460	1371	1
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3	67049429	0.000373972	KBTBD8	1337	1
10	97376340	0.000371471	ALDH18A1	1346	1
10	50574267	0.000371747	DRGX	1345	1
15	71300740	0.000364964	LRRC49	1370	1
11	8132382	0.000364697	RIC3	1371	1
8	144332065	0.000377074	ZFP41	1326	1
8	23117743	0.000363901	CHMP7	1374	1
2	219846849	0.000373134	FEV	1340	1
17	46703184	0.000363372	HOXB9	1376	1
22	29182278	0.000363901	CCDC117	1374	1

22	42486729	0.000373134	NDUFA6	1340	1
7	134849745	0.000364431	TMEM140	1372	1
1	27660475	0.000370645	TMEM222	1349	1
12	29596333	0.004424779	OVCH1	1356	10
11	49059039	0.000369004	TRIM49B	1355	1
10	81700526	0.000734214	SFTPD	1362	2
11	5878269	0.00036846	OR52E8	1357	1
19	51768702	0.000729395	SIGLECL1	1371	2
4	122250566	0.000725689	QRFPR	1378	2
19	41383115	0.000364431	CYP2A7	1372	1
15	68582760	0.000363372	FEM1B	1376	1
2	216990720	0.000363636	XRCC5	1375	1
4	187173282	0.000364697	KLKB1	1371	1
11	77386170	0.004350979	RSF1	1379	12
5	158590014	0.000728863	RNF145	1372	2
19	52272477	0.000363372	FPR2	1376	1
19	54627208	0.000371471	PRPF31	1346	1
10	92638823	0.000366032	RPP30	1366	1
2	43452427	0.000369549	ZFP36L2	1353	1
16	84792322	0.000371747	USP10	1345	1
11	193116	0.000369549	SCGB1C1	1353	1
17	38821222	0.000364431	KRT222	1372	1
14	23991896	0.006637168	ZFHX2	1356	17
17	46691892	0.000380807	HOXB8	1313	1
2	198359469	0.000364431	HSPD1	1372	1
21	35134242	0.003628447	ITSN1	1378	9
20	1299011	0.000364697	SDCBP2	1371	1
1	1231277	0.000364964	ACAP3	1370	1
1	49208402	0.000377074	BEND5	1326	1
6	34512034	0.000371471	SPDEF	1346	1
11	33768702	0.000370096	FBXO3	1351	1
10	105882545	0.00037092	SFR1	1348	1
16	46705664	0.0003663	VPS35	1365	1
1	155039417	0.00036523	EFNA4	1369	1
11	65684956	0.000370096	C11orf68	1351	1
1	19992523	0.000375657	HTR6	1331	1
2	64863740	0.000369276	SERTAD2	1354	1
21	35895983	0.000364964	RCAN1	1370	1
9	133769169	0.000375657	QRFP	1331	1
10	45496055	0.000370645	C10orf25	1349	1
17	902099	0.000366838	TIMM22	1363	1
11	56257961	0.000363636	OR5M8	1375	1
1	33252049	0.000366838	YARS	1363	1
19	5783275	0.000371471	PRR22	1346	1
16	56792469	0.002538071	NUP93	1379	6
1	42620456	0.000368732	GUCA2B	1356	1
7	6549965	0.000745156	GRID2IP	1342	2
3	10076219	0.002538071	FANCD2	1379	7

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9	99007706	0.000373413	HSD17B3	1339	1
7	27187035	0.000363636	HOXA6	1375	1
1	157557278	0.000365497	FCRL4	1368	1
13	46425701	0.000366032	SIAH3	1366	1
19	19221558	0.000377074	SLC25A42	1326	1
19	23414146	0.000366838	ZNF724P	1363	1
17	40255641	0.003625816	DHX58	1379	10
2	176948368	0.000364697	EVX2	1371	1
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13	21751294	0.000367107	MRP63	1362	1
2	201680190	0.000374813	BZW1	1334	1
4	176561981	0.000364964	GPM6A	1370	1
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8	109228720	0.000373972	EIF3E	1337	1
5	134077074	0.000365764	CAMLG	1367	1
1	153333247	0.00037037	S100A9	1350	1
20	62046315	0.000738552	KCNQ2	1354	2
3	169492253	0.000364166	MYNN	1373	1
11	1771650	0.000372024	IFITM10	1344	1
9	12775803	0.000363372	LURAP1L	1376	1
22	45685016	0.000364697	UPK3A	1371	1
5	132056318	0.000364431	KIF3A	1372	1
19	55816725	0.000366838	BRSK1	1363	1
19	42492258	0.000365764	ATP1A3	1367	1
6	167753650	0.000725689	TTLL2	1378	2
3	8672522	0.000369004	SSUH2	1355	1
8	22460724	0.00036846	C8orf58	1357	1
5	36184018	0.000366032	SKP2	1366	1
3	4355086	0.000362582	SETMAR	1379	1
16	23421653	0.000377929	COG7	1323	1
12	56137479	0.000373972	GDF11	1337	1
3	195460044	0.000378501	MUC20	1321	1
6	49663563	0.000363636	CRISP2	1375	1
4	53464862	0.000369822	USP46	1352	1
4	57888332	0.000366569	POLR2B	1364	1
12	55945051	0.000362582	OR6C4	1379	1
17	40970258	0.000364166	BECN1	1373	1
22	31661958	0.000725689	LIMK2	1378	2
18	43435575	0.007625272	EPG5	1377	19
19	18085967	0.000369004	KCNN1	1355	1
1	17396676	0.000726744	PADI2	1376	2
2	96933459	0.000736377	CIAO1	1358	1
8	97172599	0.000365764	GDF6	1367	1
5	176048251	0.000374813	SNCB	1334	1

4	186318424	0.000367647	ANKRD37	1360	1
4	42119632	0.001108647	BEND4	1353	2
17	79202940	0.000379939	ENTHD2	1316	1
12	56600467	0.000727273	RNF41	1375	2
1	229461104	0.000374532	CCSAP	1335	1
3	183818388	0.000725163	HTR3E	1379	2
9	5185472	0.000363372	INSL6	1376	1
10	71966070	0.000377644	PPA1	1324	1
19	54974025	0.000364697	LENG9	1371	1
5	140208137	0.000367647	PCDHA6	1360	1
15	42851565	0.00036523	HAUS2	1369	1
12	6499468	0.000377644	LTBR	1324	1
4	113189420	0.000363636	AP1AR	1375	1
14	25288359	0.000365764	STXBP6	1367	1
7	99569398	0.000363636	AZGP1	1375	1
20	10386202	0.000364166	MKKS	1373	1
4	95220693	0.000725163	HPGDS	1379	2
10	128973938	0.000378788	FAM196A	1320	1
9	129595020	0.000363372	ZBTB43	1376	1
9	35059494	0.0003663	VCP	1365	1
11	118399344	0.00037092	TTC36	1348	1
11	17428486	0.005801305	ABCC8	1379	10
1	158262392	0.0003663	CD1C	1365	1
2	155555555	0.000364431	KCNJ3	1372	1
12	27132740	0.000726216	TM7SF3	1377	2
3	44396302	0.000365497	TCAIM	1368	1
19	18857915	0.000377074	CRTC1	1326	1
11	57996112	0.000364431	OR10Q1	1372	1
5	153857423	0.00037037	HAND1	1350	1
11	298640	0.000375657	IFITM5	1331	1
4	4242096	0.000364964	TMEM128	1370	1
13	37427788	0.000748503	SMAD9	1336	2
3	178919151	0.000363901	PIK3CA	1374	1
5	179668088	0.00037037	MAPK9	1350	1
7	12254635	0.00036523	TMEM106B	1369	1
2	170591832	0.000363636	KLHL23	1375	1
12	106708207	0.00036523	TCP11L2	1369	1
19	18964135	0.000373413	UPF1	1339	1
15	45248947	0.000370645	C15orf43	1349	1
7	7677569	0.000363372	RPA3	1376	1
1	60375612	0.000365764	CYP2J2	1367	1
6	132789554	0.000363372	STX7	1376	1
7	99708826	0.000366032	TAF6	1366	1
11	118963169	0.000367647	HMBS	1360	1
21	40720223	0.000374532	HMGN1	1335	1
1	224553690	0.000726216	CNIH4	1377	2
11	59573957	0.00036523	MRPL16	1369	1
5	156770031	0.000363372	FNDC9	1376	1

12	56680380	0.000375657	CS	1331	1
19	41248487	0.000372024	C19orf54	1344	1
1	41485978	0.000370096	SLFNL1	1351	1
22	50693959	0.000367107	MAPK12	1362	1
6	160205022	0.000726216	TCP1	1377	2
20	19981448	0.000738552	RIN2	1354	2
2	9628289	0.000366569	IAH1	1364	1
11	18231578	0.000380228	RP11-113D6.10	1315	1
11	102985957	0.011061947	DYNC2H1	1356	27
9	37033981	0.000374813	PAX5	1334	1
1	228288914	0.000367107	C1orf35	1362	1
5	150439934	0.000733138	TNIP1	1364	2
12	58020724	0.000369822	B4GALNT1	1352	1
11	69482711	0.000367647	ORAOV1	1360	1
19	36515428	0.000367647	CLIP3	1360	1
19	55420808	0.000367107	NCR1	1362	1
16	66613710	0.000739645	CMTM2	1352	2
12	68551701	0.000725689	IFNG	1378	1
4	121738060	0.000726744	PRDM5	1376	2
16	30100283	0.000368732	TBX6	1356	1
9	80855221	0.000738552	CEP78	1354	2
8	27097670	0.000362845	STMN4	1378	1
10	5138632	0.00037092	AKR1C3	1348	1
11	6008030	0.000371195	OR52L1	1347	1
4	674361	0.000373134	MYL5	1340	1
6	10586228	0.000364166	GCNT2	1373	1
16	20871237	0.000364431	DCUN1D3	1372	1
12	54394154	0.000367918	HOXC9	1359	1
16	87677884	0.00036523	JPH3	1369	1
20	39706226	0.001088534	TOP1	1378	3
3	138724784	0.000372301	PRR23A	1343	1
1	201860580	0.000364697	SHISA4	1371	1
7	36458915	0.000728863	ANLN	1372	2
7	2565320	0.000734214	LFNG	1362	1
3	27761716	0.000366032	EOMES	1366	1
10	120070785	0.000379075	FAM204A	1319	1
16	10867909	0.000369276	TVP23A	1354	1
7	12376816	0.002581121	VWDE	1356	7
12	58120921	0.000378788	AGAP2-AS1	1320	1
11	62557356	0.000746269	TMEM179B	1340	2
2	233099	0.000364166	SH3YL1	1373	1
9	96080794	0.000740192	C9orf129	1351	1
3	37323710	0.004720407	GOLGA4	1377	12
11	118971529	0.000365764	DPAGT1	1367	1
1	151131252	0.000365764	TNFAIP8L2	1367	1
2	37406615	0.000363372	SULT6B1	1376	1
1	71536543	0.000369549	ZRANB2	1353	1
11	11398765	0.001090116	GALNT18	1376	2

1	51578190	0.000371471	C1orf185	1346	1
19	6466631	0.000378215	CRB3	1322	1
9	131708392	0.000364166	DOLK	1373	1
15	72837229	0.000364964	ARIH1	1370	1
11	60201320	0.000363108	MS4A5	1377	1
19	18497097	0.000378501	GDF15	1321	1
3	185783808	0.00037037	ETV5	1350	1
7	116199112	0.000363372	CAV1	1376	1
17	72700722	0.000363636	CD300LF	1375	1
12	55725798	0.000362582	OR6C3	1379	1
6	30658621	0.000365497	NRM	1368	1
17	48539024	0.000727802	ACSF2	1374	2
17	21081588	0.000367918	DHRS7B	1359	1
8	38913196	0.000364166	ADAM9	1373	1
3	52183397	0.000727273	POC1A	1375	2
19	46525993	0.000364166	PGLYRP1	1373	1
12	2936840	0.000363901	NRIP2	1374	1
18	56414680	0.000365497	MALT1	1368	1
14	35482696	0.000367377	SRP54	1361	1
11	56756504	0.000367107	OR5AK2	1362	1
4	5857979	0.000366838	CRMP1	1363	1
1	157772254	0.000362582	FCRL1	1379	1
5	140572688	0.001096491	PCDHB10	1368	2
4	1388333	0.000364166	CRIPAK	1373	1
20	36365799	0.000366569	CTNNBL1	1364	1
6	124604187	0.000363108	NKAIN2	1377	1
1	226175706	0.000362845	SDE2	1378	1
3	128292275	0.000367647	C3orf27	1360	1
17	46655650	0.000364964	HOXB4	1370	1
17	73999313	0.000362845	CDK3	1378	1
3	158428601	0.000366569	RARRES1	1364	1
2	228217274	0.000363636	MFF	1375	1
17	7193731	0.000369004	YBX2	1355	1
15	22383211	0.000375657	OR4N4	1331	1
3	155615778	0.00037037	GMPS	1350	1
19	11489067	0.000732064	EPOR	1366	2
15	75195115	0.000728863	FAM219B	1372	2
6	31639734	0.000364431	LY6G5B	1372	1
2	139428673	0.000376506	NXPH2	1328	1
22	26937352	0.000379939	TPST2	1316	1
12	108961080	0.000363372	ISCU	1376	1
1	178485747	0.000363636	TEX35	1375	1
22	40367044	0.000366032	GRAP2	1366	1
6	43273805	0.000369822	CRIP3	1352	1
17	19288739	0.000363901	MFAP4	1374	1
5	154393874	0.007251632	KIF4B	1379	18
10	71391555	0.000369276	C10orf35	1354	1
16	69778834	0.000373692	NOB1	1338	1

5	180687288	0.000377644	TRIM52	1324	1
1	160319415	0.000370645	NCSTN	1349	1
20	43959066	0.000363636	SDC4	1375	1
11	124829866	0.003687316	CCDC15	1356	9
1	153516274	0.00037092	S100A4	1348	1
6	3015824	0.000364431	NQO2	1372	1
1	146639388	0.000363636	PRKAB2	1375	1
21	46032529	0.000363108	KRTAP10-8	1377	1
12	101790283	0.000371195	ARL1	1347	1
13	77575029	0.000364431	CLN5	1372	1
7	64863487	0.000369004	ZNF92	1355	1
1	173010649	0.000369822	TNFSF18	1352	1
12	22826494	0.000371471	ETNK1	1346	1
18	71930702	0.000380228	CYB5A	1315	1
1	212538594	0.003265602	TMEM206	1378	8
12	49691772	0.000372301	PRPH	1343	1
1	109191468	0.000363372	HENMT1	1376	1
22	40417538	0.000372301	FAM83F	1343	1
6	27778209	0.000371747	HIST1H3H	1345	1
18	9396495	0.000369276	TWSG1	1354	1
8	98699780	0.00036523	MTDH	1369	1
1	33134670	0.000367377	RBBP4	1361	1
20	1426473	0.000379363	NSFL1C	1318	1
2	208434982	0.000725689	CREB1	1378	2
9	32784861	0.000372856	TMEM215	1341	1
15	40231740	0.003628447	EIF2AK4	1378	10
17	58035730	0.000735294	RNFT1	1360	2
19	23329170	0.000370096	ZNF730	1351	1
11	118416550	0.000369549	IFT46	1353	1
7	150094503	0.000379075	ZNF775	1319	1
3	46541935	0.000377358	RTP3	1325	1
5	110837788	0.00036846	STARD4	1357	1
3	178546084	0.000364964	KCNMB2	1370	1
19	3614474	0.000372301	CACTIN	1343	1
5	161119028	0.000725163	GABRA6	1379	2
11	489935	0.000380518	PTDSS2	1314	1
1	1153899	0.000726216	SDF4	1377	2
9	19380190	0.000362582	RPS6	1379	1
19	2917185	0.003628447	ZNF57	1378	9
19	11460793	0.000370645	CCDC159	1349	1
2	198631323	0.000363636	BOLL	1375	1
6	41900440	0.000378215	BYSL	1322	1
1	12089169	0.000372301	MIIP	1343	1
20	62172269	0.000369549	SRMS	1353	1
7	23340460	0.000725163	MALSU1	1379	2
19	44273649	0.000363372	KCNN4	1376	1
7	27284752	0.000376223	EVX1	1329	1
1	155145234	0.000376506	KRTCAP2	1328	1

19	36964237	0.000363636	ZNF566	1375	1
4	56736989	0.000363901	EXOC1	1374	1
6	107391728	0.000381388	BEND3	1311	1
5	156378691	0.000364697	TIMD4	1371	1
12	123460948	0.002552881	OGFOD2	1371	6
21	31812941	0.000364431	KRTAP15-1	1372	1
1	156128228	0.000725689	SEMA4A	1378	2
2	202342910	0.000363372	STRADB	1376	1
16	11009498	0.000366032	CIITA	1366	1
7	32582772	0.000726744	AVL9	1376	2
16	836901	0.000374251	RPUSD1	1336	1
9	139889969	0.000733138	CLIC3	1364	2
19	41306555	0.000372301	EGLN2	1343	1
10	14709692	0.000364166	FAM107B	1373	1
3	51812782	0.000373972	IQCF6	1337	1
3	50334089	0.000369822	NAT6	1352	1
6	26027390	0.000380228	HIST1H4B	1315	1
13	114018185	0.000372578	GRTP1	1342	1
2	101881451	0.000362582	CNOT11	1379	1
17	7350970	0.000363901	CHRNB1	1374	1
5	66480213	0.000362845	CD180	1378	1
11	62529377	0.000372301	POLR2G	1343	1
1	40035268	0.000371471	PABPC4	1346	1
1	15833408	0.000367647	CASP9	1360	1
6	166720903	0.000381098	PRR18	1312	1
4	159076827	0.000365497	FAM198B	1368	1
19	1123542	0.000371471	SBNO2	1346	1
20	23370593	0.000364697	NAPB	1371	1
1	229738306	0.000369276	TAF5L	1354	1
3	196612360	0.000368732	SENP5	1356	1
6	70423623	0.00036523	LMBRD1	1369	1
17	15890590	0.000369549	ZSWIM7	1353	1
19	52794116	0.000368732	ZNF766	1356	1
4	81121274	0.000363636	PRDM8	1375	1
12	51675266	0.000365497	BIN2	1368	1
10	127350429	0.000373972	TEX36	1337	1
2	9770396	0.000369549	YWHAQ	1353	1
1	150680796	0.00036523	HORMAD1	1369	1
11	66384328	0.000735294	RBM4	1360	2
3	97486955	0.000366569	ARL6	1364	1
1	208063083	0.000372578	CD34	1342	1
6	153345567	0.000367918	RGS17	1359	1
11	5475018	0.000363901	OR51I2	1374	1
1	228363050	0.000369549	IBA57	1353	1
16	4312339	0.000369822	TFAP4	1352	1
8	61654977	0.003687316	CHD7	1356	9
14	76121248	0.000363901	C14orf1	1374	1
17	40986577	0.000364166	PSME3	1373	1

19	22270884	0.000364964	ZNF257	1370	1
22	41980009	0.000364166	PMM1	1373	1
10	61012574	0.000728332	FAM13C	1373	2
21	36079645	0.000363901	CLIC6	1374	1
11	111941905	0.000363108	PIH1D2	1377	1
1	111136519	0.000371195	KCNA2	1347	1
14	65035108	0.000363372	PPP1R36	1376	1
17	7306466	0.000371195	TMEM256	1347	1
12	132238933	0.000372856	SFSWAP	1341	1
15	65623510	0.000369276	IGDCC3	1354	1
14	93670040	0.000363636	C14orf142	1375	1
21	15588510	0.000372301	RBM11	1343	1
5	76249877	0.000366838	CRHBP	1363	1
3	186299251	0.000367107	DNAJB11	1362	1
17	59560359	0.000367107	TBX4	1362	1
7	99217381	0.000728332	ZSCAN25	1373	2
8	27146743	0.000362845	TRIM35	1378	1
12	9984912	0.00036846	KLRF1	1357	1
8	63973852	0.000373692	TTPA	1338	1
1	57347191	0.000363372	C8A	1376	1
9	107299085	0.000369276	OR13C3	1354	1
11	4389449	0.000374532	OR52B4	1335	1
17	8347596	0.00037092	NDEL1	1348	1
7	141478938	0.0003663	TAS2R4	1365	1
19	1979582	0.000371195	CSNK1G2	1347	1
21	30409774	0.002538071	USP16	1379	7
6	39284557	0.000726216	KCNK16	1377	2
1	181058942	0.000377644	IER5	1324	1
14	24612837	0.000378501	PSME2	1321	1
3	150480323	0.000373972	SIAH2	1337	1
2	77745833	0.000369822	LRRTM4	1352	1
5	54329641	0.000363901	GZMK	1374	1
10	75010747	0.0003663	MRPS16	1365	1
11	67198958	0.000725689	RPS6KB2	1378	2
12	72091093	0.000364964	TMEM19	1370	1
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15	22368600	0.000370096	OR4M2	1351	1
22	36876626	0.000363636	TXN2	1375	1
5	176078787	0.000362582	TSPAN17	1379	1
1	40882562	0.000364697	SMAP2	1371	1
17	47590270	0.000376506	NGFR	1328	1
12	6958225	0.000367377	CDCA3	1361	1
20	334178	0.000367107	NRSN2	1362	1
2	204255805	0.000369822	ABI2	1352	1
4	68357940	0.00037594	CENPC	1330	1
11	95562377	0.000363372	CEP57	1376	1
16	15977940	0.000725163	FOPNL	1379	2
14	103395302	0.000379075	AMN	1319	1

6	42023752	0.000364431	TAF8	1372	1
5	76729114	0.003263234	WDR41	1379	9
11	10585843	0.000363636	LYVE1	1375	1
11	67173421	0.000375094	TBC1D10C	1333	1
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5	17275864	0.000379363	BASP1	1318	1
15	92977563	0.000363636	ST8SIA2	1375	1
3	50324186	0.000368732	LSMEM2	1356	1
4	87809389	0.000363636	C4orf36	1375	1
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2	207041634	0.000379651	GPR1	1317	1
7	148311328	0.000363636	C7orf33	1375	1
3	195295816	0.000365764	APOD	1367	1
17	64876748	0.000726216	CACNG5	1377	2
17	77768601	0.000369549	CBX8	1353	1
8	85441658	0.000370645	RALYL	1349	1
19	1244137	0.000379651	ATP5D	1317	1
17	40958720	0.000362582	CNTD1	1379	1
2	73441423	0.000367107	SMYD5	1362	1
8	17504491	0.007614213	MTUS1	1379	21
11	68337232	0.000363108	PPP6R3	1377	1
5	157073719	0.000365764	SOX30	1367	1
19	58018116	0.000363372	ZNF773	1376	1
20	419926	0.000367377	TBC1D20	1361	1
19	5908974	0.000378501	VMAC	1321	1
20	61167828	0.00037092	C20orf166	1348	1
1	160099946	0.00036523	ATP1A2	1369	1
4	76442041	0.000365764	THAP6	1367	1
19	7794771	0.000369549	CLEC4G	1353	1
16	89755715	0.000728332	CDK10	1373	2
6	31475227	0.00036846	MICB	1357	1
20	56730559	0.000375657	C20orf85	1331	1
19	5832208	0.000728863	FUT6	1372	2
11	118849732	0.000735294	FOXR1	1360	2
11	71711561	0.000366838	IL18BP	1363	1
15	78825759	0.00036523	HYKK	1369	1
19	9213199	0.000362582	OR7G2	1379	1
12	57892044	0.000726216	MARS	1377	2
3	124646405	0.000374251	MUC13	1336	1
17	41832819	0.000373972	SOST	1337	1
4	87967403	0.005076142	AFF1	1379	12
3	186272379	0.00036523	TBCCD1	1369	1
7	117144335	0.006163887	CFTR	1379	16
10	87362126	0.003625816	GRID1	1379	10
17	19186527	0.000729395	EPN2	1371	2
16	80584421	0.000363372	DYNLRB2	1376	1

3	145912935	0.000364697	PLSCR4	1371	1
17	7606327	0.000366838	WRAP53	1363	1
19	16620782	0.000369549	C19orf44	1353	1
4	129193519	0.000369276	PGRMC2	1354	1
11	62430765	0.000374532	C11orf48	1335	1
16	31228177	0.000366838	PYDC1	1363	1
16	46617450	0.002900653	SHCBP1	1379	8
7	100959803	0.000365497	RABL5	1368	1
1	33794732	0.000729927	PHC2	1370	2
2	10269037	0.000366838	RRM2	1363	1
17	42982346	0.00037037	FAM187A	1350	1
11	47609772	0.000372024	FAM180B	1344	1
1	46976836	0.001099707	DMBX1	1364	3
1	27677421	0.000377074	SYTL1	1326	1
12	70760624	0.000371471	KCNMB4	1346	1
17	4510726	0.000372301	SMTNL2	1343	1
11	2950289	0.00037594	PHLDA2	1330	1
16	15132475	0.000726744	NTAN1	1376	2
2	207615667	0.000363901	MDH1B	1374	1
1	186386698	0.000370096	C1orf27	1351	1
11	56043371	0.000364431	OR5T1	1372	1
6	29796386	0.000371195	HLA-G	1347	1
12	50295039	0.000374251	FAIM2	1336	1
14	24775675	0.000363372	CIDEB	1376	1
11	92714648	0.000363636	MTNR1B	1375	1
17	34391706	0.00036523	CCL18	1369	1
13	20763483	0.000366569	GJB2	1364	1
9	33270641	0.000364697	CHMP5	1371	1
15	56680710	0.000369004	TEX9	1355	1
12	105151165	0.000380807	CHST11	1313	1
8	37556142	0.000366569	ZNF703	1364	1
14	69352179	0.00037092	ACTN1	1348	1
16	10637495	0.000363372	EMP2	1376	1
18	19236905	0.000363636	ABHD3	1375	1
19	56953625	0.000363108	ZNF667	1377	1
10	98129871	0.004350979	TLL2	1379	12
3	184062298	0.001111111	FAM131A	1350	1
16	75258628	0.000372301	CTRB1	1343	1
6	96044678	0.000367377	MANEA	1361	1
11	65810721	0.000380228	GAL3ST3	1315	1
2	219209225	0.000373413	PNKD	1339	1
14	78187136	0.000363636	SNW1	1375	1
11	56000390	0.000363108	OR5T2	1377	1
2	190636503	0.000381098	ORMDL1	1312	1
11	65650551	0.000363901	CTSW	1374	1
20	42969896	0.000367377	R3HDML	1361	1
14	21498781	0.000372301	TPPP2	1343	1
7	76132761	0.000735835	DTX2	1359	2

4	42403082	0.000733138	SHISA3	1364	2
14	96178113	0.00036523	TCL1A	1369	1
11	63992291	0.000368732	TRPT1	1356	1
19	11660368	0.00037594	CNN1	1330	1
6	52101808	0.000364431	IL17F	1372	1
19	46025457	0.000378501	VASP	1321	1
6	35087990	0.000366838	TCP11	1363	1
16	58320016	0.000362845	PRSS54	1378	1
6	32133918	0.000367918	PPT2	1359	1
19	54485495	0.000376506	CACNG8	1328	1
1	150991067	0.000363636	PRUNE	1375	1
9	140120102	0.000373972	C9orf169	1337	1
12	49717396	0.004713561	TROAP	1379	13
16	53528296	0.0003663	AKTIP	1365	1
14	39601228	0.000367107	GEMIN2	1362	1
19	38798286	0.0003663	YIF1B	1365	1
1	158913664	0.000362582	PYHIN1	1379	1
17	41154703	0.000367647	RPL27	1360	1
9	75775278	0.000364431	ANXA1	1372	1
11	4592772	0.000379075	C11orf40	1319	1
12	50368533	0.000365764	AQP6	1367	1
12	132685774	0.000369276	GALNT9	1354	1
17	27228067	0.000366838	DHRS13	1363	1
6	160212080	0.000367377	MRPL18	1361	1
3	158390178	0.000366838	LXN	1363	1
9	14722370	0.000365764	CER1	1367	1
3	47378123	0.000735835	KLHL18	1359	1
1	46650296	0.000367377	TSPAN1	1361	1
15	101016370	0.000369276	CERS3	1354	1
2	87017657	0.000375657	CD8A	1331	1
19	10419217	0.000373692	ZGLP1	1338	1
19	12541673	0.000369004	ZNF443	1355	1
17	8725166	0.000380228	PIK3R6	1315	1
22	17288789	0.000363636	XKR3	1375	1
17	59760716	0.004713561	BRIP1	1379	13
2	113736849	0.000370096	IL36G	1351	1
1	47139057	0.000737463	TEX38	1356	1
1	193066824	0.000364166	GLRX2	1373	1
2	106690484	0.000372301	C2orf40	1343	1
17	42926738	0.000367647	HIGD1B	1360	1
1	17606890	0.000362845	PADI3	1378	1
1	85331536	0.000367647	LPAR3	1360	1
1	95712359	0.000362582	RWDD3	1379	1
4	8293223	0.000373972	HTRA3	1337	1
12	58016345	0.000365497	SLC26A10	1368	1
11	111746418	0.003318584	FDXACB1	1356	9
5	74916146	0.000738552	ANKDD1B	1354	2
11	4567136	0.000363901	OR52M1	1374	1

8	38839213	0.000363636	HTRA4	1375	1
11	120201160	0.000363108	TMEM136	1377	1
22	45132907	0.000380518	PRR5	1314	1
7	123593628	0.000365764	SPAM1	1367	1
11	89448324	0.000372301	TRIM77	1343	1
19	34991070	0.000375094	WTIP	1333	1
1	41945130	0.00037092	EDN2	1348	1
6	46656352	0.005076142	TDRD6	1379	14
1	32713140	0.000371471	FAM167B	1346	1
12	123187671	0.000372024	HCAR2	1344	1
5	134246073	0.000367107	PCBD2	1362	1
14	23451312	0.000370645	AJUBA	1349	1
6	32610444	0.0003663	HLA-DQA1	1365	1
3	196242071	0.000364166	SMCO1	1373	1
5	32786418	0.000370645	NPR3	1349	1
14	20927568	0.000363636	TMEM55B	1375	1
8	66516743	0.00036523	ARMC1	1369	1
7	44102407	0.000364166	PGAM2	1373	1
12	53609167	0.000376506	RARG	1328	1
17	30694829	0.000362845	ZNF207	1378	1
1	111996834	0.000364431	ATP5F1	1372	1
16	30953478	0.000375657	FBXL19	1331	1
14	21052582	0.000379363	RNASE11	1318	1
16	66968218	0.000377644	FAM96B	1324	1
6	44240807	0.000369276	TMEM151B	1354	1
22	25250991	0.004411765	SGSM1	1360	12
5	150052000	0.00037037	MYOZ3	1350	1
20	4705697	0.000371471	PRND	1346	1
8	145700574	0.000371747	FOXH1	1345	1
11	2161419	0.000379939	IGF2	1316	1
17	15604538	0.000369822	ZNF286A	1352	1
7	155604621	0.000363108	SHH	1377	1
5	9630073	0.000363108	TAS2R1	1377	1
1	154542004	0.000371195	CHRNB2	1347	1
16	10524938	0.000363901	ATF7IP2	1374	1
3	196051261	0.000732601	TM4SF19	1365	1
2	170747690	0.003625816	UBR3	1379	10
1	113232266	0.002900653	MOV10	1379	8
15	31266653	0.000373972	MTMR10	1337	1
3	190936576	0.00037092	OSTN	1348	1
12	21526322	0.000362845	IAPP	1378	1
10	103988738	0.000362845	ELOVL3	1378	1
8	145151590	0.000363636	CYC1	1375	1
11	48134348	0.003625816	PTPRJ	1379	10
17	80274708	0.000368189	CD7	1358	1
14	57268901	0.000366838	OTX2	1363	1
8	91837053	0.000372301	NECAB1	1343	1
8	70967546	0.000365497	PRDM14	1368	1

3	151155430	0.00688905	IGSF10	1379	19
19	48887630	0.000364697	KDELR1	1371	1
19	48202618	0.000373972	GLTSCR1	1337	1
1	171493984	0.007374631	PRRC2C	1356	19
2	152316581	0.000737463	RIF1	1356	2
3	102175176	0.000362845	ZPLD1	1378	1
6	149721811	0.000377358	SUMO4	1325	1
14	92583971	0.000375094	NDUFB1	1333	1
9	16215806	0.000371471	C9orf92	1346	1
10	119003596	0.000364431	SLC18A2	1372	1
10	129899815	0.008339376	MKI67	1379	22
13	97639850	0.000372856	OXGR1	1341	1
19	14675905	0.000364431	TECR	1372	1
4	82369368	0.000366838	RASGEF1B	1363	1
10	70101021	0.000366838	HNRNPH3	1363	1
18	51800380	0.00479351	POLI	1356	11
19	2427491	0.000377929	TIMM13	1323	1
3	194371841	0.000367107	LSG1	1362	1
15	40328611	0.000378215	SRP14	1322	1
3	49456572	0.000733138	AMT	1364	2
16	88037982	0.000369549	BANP	1353	1
12	27915886	0.000368732	MANSC4	1356	1
4	125590240	0.005076142	ANKRD50	1379	13
6	42797689	0.000363372	GLTSCR1L	1376	1
11	66436510	0.000367107	RBM4B	1362	1
4	38995488	0.000362582	TMEM156	1379	1
8	110984946	0.000369276	KCNV1	1354	1
11	112041353	0.000367107	TEX12	1362	1
1	1721877	0.000363108	GNB1	1377	1
16	88925096	0.000373692	TRAPPC2L	1338	1
22	24898311	0.000369549	UPB1	1353	1
15	89400785	0.00074184	ACAN	1348	2
6	151775783	0.00037037	C6orf211	1350	1
6	167592552	0.000372578	TCP10L2	1342	1
13	102231778	0.000367918	ITGBL1	1359	1
1	43126563	0.00036523	PPIH	1369	1
7	93555413	0.000365764	GNG11	1367	1
22	37159019	0.0003663	IFT27	1365	1
19	55085836	0.00037679	LILRA2	1327	1
2	159459610	0.003988397	PKP4	1379	11
9	127618776	0.000364697	WDR38	1371	1
2	177054035	0.000377644	HOXD1	1324	1
4	10447409	0.000363108	ZNF518B	1377	1
8	38027358	0.000363372	LSM1	1376	1
20	44463696	0.000364964	SNX21	1370	1
14	105478073	0.000369276	CDCA4	1354	1
14	20781877	0.000380807	CCNB1IP1	1313	1
7	27213828	0.000380228	HOXA10	1315	1

11	60900749	0.000364431	VPS37C	1372	1
19	39517611	0.0003663	FBXO27	1365	1
19	51470436	0.00036523	KLK6	1369	1
5	154210440	0.000364697	FAXDC2	1371	1
2	157370008	0.000376223	GPD2	1329	1
8	195704	0.000362845	ZNF596	1378	1
11	59949154	0.000363636	MS4A6A	1375	1
11	59630062	0.0003663	TCN1	1365	1
6	26056130	0.000363372	HIST1H1C	1376	1
4	70897699	0.000375094	HTN3	1333	1
7	138522742	0.005535055	KIAA1549	1355	11
10	45498850	0.000366032	ZNF22	1366	1
11	61135440	0.000363901	TMEM138	1374	1
18	24056502	0.000378501	KCTD1	1321	1
15	63421761	0.000362582	LACTB	1379	1
1	26497031	0.000368189	ZNF593	1358	1
3	148757376	0.003625816	HLTF	1379	10
17	7150439	0.00036523	CTDNEP1	1369	1
17	72608881	0.000369822	CD300E	1352	1
15	23811802	0.000734754	MKRN3	1361	2
10	5683847	0.000365497	ASB13	1368	1
17	7909706	0.003263234	GUCY2D	1379	8
13	20716862	0.00037037	GJA3	1350	1
1	151020430	0.000734754	C1orf56	1361	2
11	71821645	0.000367647	ANAPC15	1360	1
21	47738083	0.000379651	C21orf58	1317	1
6	90039521	0.000364166	UBE2J1	1373	1
14	20665748	0.000725163	OR11G2	1379	2
14	100563954	0.000362845	EVL	1378	1
2	219735876	0.000373134	WNT6	1340	1
7	99772363	0.000728332	GPC2	1373	1
20	1600553	0.000373972	SIRPB1	1337	1
1	45216187	0.002177068	KIF2C	1378	5
7	14775722	0.000372024	DGKB	1344	1
8	80915371	0.000726216	TPD52	1377	2
11	18955965	0.000733138	MRGPRX1	1364	2
15	38228644	0.000364431	TMCO5A	1372	1
3	161217024	0.000378501	OTOL1	1321	1
20	58645701	0.000363108	C20orf197	1377	1
20	2840942	0.003265602	VPS16	1378	9
16	319521	0.000367107	RGS11	1362	1
1	171303757	0.000363108	FMO4	1377	1
18	57103149	0.000363372	CCBE1	1376	1
3	49764967	0.000377358	IP6K1	1325	1
21	33032084	0.00037092	SOD1	1348	1
17	41165282	0.000369822	IFI35	1352	1
6	14118232	0.000368732	CD83	1356	1
19	48996977	0.003318584	LMTK3	1356	5

8	145154499	0.000738552	SHARPIN	1354	2
20	57035902	0.000375094	APCDD1L	1333	1
2	27607619	0.000363901	PPM1G	1374	1
7	48147890	0.000371747	UPP1	1345	1
4	47602258	0.003625816	CORIN	1379	9
12	68051287	0.000364964	DYRK2	1370	1
10	28024282	0.000367377	MKX	1361	1
5	157106952	0.000369549	C5orf52	1353	1
12	117013787	0.000366032	MAP1LC3B2	1366	1
17	27031765	0.000728863	PROCA1	1372	2
11	45935707	0.000379363	PEX16	1318	1
1	196645148	0.003263234	CFH	1379	9
4	57265437	0.000363372	PPAT	1376	1
6	13620520	0.000362845	NOL7	1378	1
14	35871659	0.000726216	NFKBIA	1377	1
19	40953835	0.000377358	BLVRB	1325	1
9	124073044	0.000366569	GSN	1364	1
5	174919229	0.000725689	SFXN1	1378	2
19	46289173	0.00037037	DMWD	1350	1
4	114469870	0.000365497	CAMK2D	1368	1
15	42839522	0.000370096	LRRC57	1351	1
10	12940535	0.000366569	CCDC3	1364	1
16	3254521	0.000726744	OR1F1	1376	2
2	238428629	0.000365764	MLPH	1367	1
15	65308827	0.00037092	MTFMT	1348	1
5	176562108	0.005801305	NSD1	1379	16
17	73498165	0.000369549	CASKIN2	1353	1
8	144695417	0.000366838	TSTA3	1363	1
1	75707747	0.000364166	SLC44A5	1373	1
4	76415854	0.000363108	RCHY1	1377	1
4	113199443	0.000363636	TIFA	1375	1
10	75393673	0.000373692	MYOZ1	1338	1
12	91449902	0.000363108	KERA	1377	1
17	45773530	0.000370096	TBKBP1	1351	1
2	11284232	0.00037092	C2orf50	1348	1
2	97483128	0.000725163	CNNM3	1379	2
16	4933939	0.005076142	PPL	1379	13
19	48879324	0.00037092	SYNGR4	1348	1
1	53279566	0.000364697	ZYG11B	1371	1
11	67395452	0.000375375	NUDT8	1332	1
7	138713694	0.000372578	ZC3HAV1L	1342	1
19	40748542	0.000370096	AKT2	1351	1
12	71526473	0.000363372	TSPAN8	1376	1
1	23645070	0.000363901	HNRNPR	1374	1
10	5838803	0.000374251	GDI2	1336	1
14	73445568	0.000364964	ZFYVE1	1370	1
3	44492903	0.000372024	ZNF445	1344	1
12	113906098	0.000380228	LHX5	1315	1

17	57808830	0.000364697	VMP1	1371	1
2	101014547	0.000364697	CHST10	1371	1
18	48581345	0.000363108	SMAD4	1377	1
12	89866018	0.000370645	POC1B	1349	1
1	86200496	0.003625816	COL24A1	1379	10
3	8787553	0.00036846	CAV3	1357	1
3	145824329	0.000367647	PLOD2	1360	1
6	31683360	0.000364964	LY6G6D	1370	1
2	172966225	0.000377644	DLX2	1324	1
16	71570788	0.000365764	CHST4	1367	1
9	116135938	0.000369549	HDHD3	1353	1
1	44457904	0.00036846	CCDC24	1357	1
15	65553338	0.000379651	PARP16	1317	1
1	156675174	0.000367918	CRABP2	1359	1
10	105795096	0.004713561	COL17A1	1379	11
11	73141815	0.000371195	FAM168A	1347	1
19	18368288	0.003628447	KIAA1683	1378	9
17	4060224	0.000366569	CYB5D2	1364	1
4	130027740	0.000369549	C4orf33	1353	1
7	17838377	0.003687316	SNX13	1356	10
20	21687213	0.000367647	PAX1	1360	1
2	26997940	0.000365764	SLC35F6	1367	1
18	9931950	0.000367107	VAPA	1362	1
1	12632760	0.000380518	DHRS3	1314	1
10	76993839	0.00036846	COMTD1	1357	1
7	140494115	0.000371471	BRAF	1346	1
10	99205541	0.00037092	EXOSC1	1348	1
16	89629322	0.000365764	RPL13	1367	1
4	114899969	0.000369549	ARSJ	1353	1
5	82940451	0.000363636	HAPLN1	1375	1
8	62438644	0.000363636	ASPH	1375	1
5	6616864	0.000362582	NSUN2	1379	1
7	122033260	0.004056047	CADPS2	1356	10
6	79607901	0.000364964	IRAK1BP1	1370	1
20	23584182	0.000364166	CST9	1373	1
1	39384913	0.00037092	RHBDL2	1348	1
13	43180989	0.000363636	TNFSF11	1375	1
6	5216934	0.000728863	LYRM4	1372	1
6	21065458	0.00036846	CDKAL1	1357	1
1	204106304	0.000372856	ETNK2	1341	1
9	130420693	0.000377358	STXBP1	1325	1
19	10229594	0.000364964	EIF3G	1370	1
4	5586412	0.007976795	EVC2	1379	18
11	20515468	0.000372856	PRMT3	1341	1
1	205561404	0.000378215	MFSD4	1322	1
6	130166930	0.000371471	TMEM244	1346	1
7	139102336	0.000366838	C7orf55-LUC7L2	1363	1
11	27077126	0.000364431	BBOX1	1372	1

9	95155388	0.000725689	OGN	1378	2
16	697424	0.000376223	FAM195A	1329	1
21	31933428	0.000364964	KRTAP19-7	1370	1
1	205064055	0.000363108	RBBP5	1377	1
12	112578813	0.000726216	TRAFD1	1377	2
12	40158304	0.000365497	SLC2A13	1368	1
11	124793823	0.000375375	HEPACAM	1332	1
19	14153567	0.000725689	IL27RA	1378	2
12	69203026	0.000726216	MDM2	1377	2
7	45109428	0.000366032	CCM2	1366	1
6	137468908	0.000363108	IL22RA2	1377	1
12	122340969	0.00036523	PSMD9	1369	1
15	49575773	0.000365764	GALK2	1367	1
1	204170822	0.000366032	GOLT1A	1366	1
8	11637273	0.00073046	NEIL2	1369	2
19	4054165	0.00037092	ZBTB7A	1348	1
13	36801496	0.000372856	CCDC169	1341	1
16	89764272	0.000376223	SPATA2L	1329	1
11	63997325	0.000369549	NUDT22	1353	1
4	1360159	0.000372024	UVSSA	1344	1
7	136936103	0.000369276	PTN	1354	1
3	111760766	0.003263234	TMPRSS7	1379	9
4	2877735	0.002904866	ADD1	1377	8
11	45832433	0.000381388	SLC35C1	1311	1
19	30199251	0.000368189	C19orf12	1358	1
16	27474896	0.004716981	GTF3C1	1378	12
11	67766711	0.000371471	UNC93B1	1346	1
1	156756509	0.000363901	PRCC	1374	1
20	44639636	0.003625816	MMP9	1379	10
16	772481	0.000380228	FAM173A	1315	1
10	86017718	0.000728863	RGR	1372	2
1	1273982	0.000368732	DVL1	1356	1
1	47078785	0.000369276	MOB3C	1354	1
11	67257910	0.000379075	AIP	1319	1
19	15852399	0.000362845	OR10H3	1378	1
17	12862105	0.000373413	ARHGAP44	1339	1
19	49364744	0.000372301	PLEKHA4	1343	1
12	15100847	0.000363636	ARHGDIB	1375	1
19	30103046	0.00036523	POP4	1369	1
2	197021170	0.0003663	STK17B	1365	1
5	154268907	0.005438724	GEMIN5	1379	12
16	21190806	0.00036846	TMEM159	1357	1
18	33935578	0.003988397	FHOD3	1379	11
17	38251333	0.000367918	NR1D1	1359	1
17	32612829	0.000367647	CCL11	1360	1
2	105708931	0.000369004	MRPS9	1355	1
1	147380272	0.000366569	GJA8	1364	1
17	37618365	0.005076142	CDK12	1379	14

8	82606253	0.000363636	SLC10A5	1375	1
21	37785430	0.000371195	CHAF1B	1347	1
9	27359094	0.000364697	MOB3B	1371	1
6	26200165	0.000364166	HIST1H2BF	1373	1
17	18654248	0.000371195	FBXW10	1347	1
3	58414328	0.000363372	PDHB	1376	1
3	132278788	0.004350979	NPHP3	1379	12
10	73767276	0.000378788	CHST3	1320	1
9	35682157	0.000372856	TPM2	1341	1
1	55451885	0.000368732	TMEM61	1356	1
11	59189991	0.000363108	OR5A2	1377	1
1	155691356	0.000364166	DAP3	1373	1
20	29896382	0.000363636	DEFB116	1375	1
11	125523740	0.000370645	CHEK1	1349	1
8	30546691	0.00037037	GSR	1350	1
10	102304803	0.000367377	HIF1AN	1361	1
19	1986591	0.00037679	BTBD2	1327	1
15	40565629	0.000364964	PAK6	1370	1
3	57131714	0.000371471	IL17RD	1346	1
1	9427579	0.00037092	SPSB1	1348	1
1	110038359	0.000725689	CYB561D1	1378	2
12	56031411	0.000363108	OR10P1	1377	1
11	17578707	0.003690037	OTOG	1355	10
11	110450389	0.004713561	ARHGAP20	1379	13
1	99387598	0.000367107	LPPR5	1362	1
6	27114956	0.000380518	HIST1H2AH	1314	1
1	175299280	0.005079826	TNR	1378	14
17	80280053	0.000372301	SECTM1	1343	1
19	48006694	0.000373413	NAPA	1339	1
16	69143602	0.00036846	HAS3	1357	1
14	50247001	0.000366838	KLHDC2	1363	1
2	47136229	0.00037679	MCFD2	1327	1
12	6762497	0.000726216	ING4	1377	1
17	35872768	0.000362845	DUSP14	1378	1
5	175816488	0.000369822	HIGD2A	1352	1
22	37966272	0.000726216	LGALS2	1377	2
4	186066182	0.000367107	SLC25A4	1362	1
17	4645102	0.000367647	ZMYND15	1360	1
17	7760096	0.003277495	LSMD1	1373	6
5	175824967	0.001118568	CLTB	1341	1
2	37428976	0.005801305	CEBPZ	1379	15
17	73126667	0.000369276	NT5C	1354	1
3	42705346	0.000369549	ZBTB47	1353	1
3	10377951	0.000377644	ATP2B2	1324	1
12	10319434	0.000365497	OLR1	1368	1
21	45970792	0.000371471	KRTAP10-2	1346	1
8	56879289	0.00036523	LYN	1369	1
15	69238220	0.000363108	SPESP1	1377	1

11	118771744	0.003625816	BCL9L	1379	10
15	93543767	0.000367377	CHD2	1361	1
4	53731766	0.000373413	RASL11B	1339	1
8	80915371	0.000725689	MRPS28	1378	2
6	31939302	0.000369276	DXO	1354	1
1	27250599	0.000367647	NUDC	1360	1
15	91428522	0.003991292	FES	1378	11
16	30440376	0.00036523	DCTPP1	1369	1
9	27047335	0.001090116	IFT74	1376	3
21	47918587	0.005154639	DIP2A	1358	12
9	123156865	0.004713561	CDK5RAP2	1379	9
9	133986997	0.000364697	AIF1L	1371	1
17	71166539	0.000364431	SSTR2	1372	1
17	55926718	0.000368732	MRPS23	1356	1
14	71067350	0.000372578	MED6	1342	1
19	42937211	0.000367647	CXCL17	1360	1
5	137088909	0.000373692	HNRNPA0	1338	1
15	63632966	0.000367377	CA12	1361	1
19	2114212	0.000373692	AP3D1	1338	1
12	88926282	0.000372301	KITLG	1343	1
19	19378866	0.000368189	TM6SF2	1358	1
4	77987425	0.00036846	CCNI	1357	1
1	154938063	0.000365764	SHC1	1367	1
11	48328363	0.000362582	OR4S1	1379	1
17	71205704	0.000374251	FAM104A	1336	1
16	2636895	0.000369276	PDPK1	1354	1
22	38016903	0.000363372	GGA1	1376	1
19	2717780	0.00037679	DIRAS1	1327	1
19	13065168	0.000379363	GADD45GIP1	1318	1
3	119301272	0.000725689	ADPRH	1378	2
12	129442089	0.000364431	GLT1D1	1372	1
1	155180191	0.00036846	MTX1	1357	1
1	201926700	0.000728863	TIMM17A	1372	2
19	54695653	0.000737463	TSEN34	1356	2
19	45262781	0.000364964	BCL3	1370	1
19	11031752	0.000369276	CARM1	1354	1
16	29706242	0.000377074	QPRT	1326	1
1	1647906	0.000370096	CDK11A	1351	1
4	74607321	0.000363901	IL8	1374	1
7	29546877	0.000367107	CHN2	1362	1
10	4872954	0.001090116	AKR1E2	1376	3
22	39497442	0.000369549	APOBEC3H	1353	1
1	63789280	0.000370096	FOXD3	1351	1
17	29226453	0.000365497	TEFM	1368	1
6	143486315	0.000366569	AIG1	1364	1
19	55899474	0.000377358	RPL28	1325	1
21	45655415	0.000366838	ICOSLG	1363	1
13	114469141	0.000367647	TMEM255B	1360	1

4	151120192	0.000369004	DCLK2	1355	1
1	112234021	0.000726216	RAP1A	1377	2
18	619314	0.000731529	CLUL1	1367	2
7	73150915	0.000727802	ABHD11	1374	1
16	88598479	0.000738552	ZFPM1	1354	2
3	149051168	0.000369276	TM4SF18	1354	1
1	40150156	0.001126126	HPCAL4	1332	3
18	29172910	0.000364431	TTR	1372	1
22	35481553	0.000725163	ISX	1379	2
12	21919312	0.000369004	KCNJ8	1355	1
8	104225158	0.000363108	BAALC	1377	1
4	758790	0.000364166	PCGF3	1373	1
6	167708172	0.000372024	UNC93A	1344	1
3	38293851	0.000363901	OXSR1	1374	1
1	202935700	0.000380518	CYB5R1	1314	1
9	35736083	0.001094092	CREB3	1371	1
19	10817981	0.002181818	QTRT1	1375	6
7	44186131	0.000377358	GCK	1325	1
4	71099837	0.000363108	FDCSP	1377	1
4	26585837	0.003625816	TBC1D19	1379	6
13	52598636	0.000363108	ALG11	1377	1
12	50186230	0.00363901	NCKAP5L	1374	8
1	53072454	0.000364964	GPX7	1370	1
7	56088882	0.000371195	PSPH	1347	1
12	48737442	0.000380807	ZNF641	1313	1
8	30437824	0.000363108	GTF2E2	1377	1
2	95818877	0.000363372	ZNF514	1376	1
7	86803964	0.000363372	DMTF1	1376	1
6	126176309	0.000370096	NCOA7	1351	1
1	154523877	0.00036523	UBE2Q1	1369	1
3	128875761	0.000375375	ISY1	1332	1
11	60170526	0.000364964	MS4A14	1370	1
22	39770380	0.000364964	SYNGR1	1370	1
3	9831425	0.000363108	TADA3	1377	1
19	19038800	0.000371471	DDX49	1346	1
2	216861109	0.000370096	MREG	1351	1
2	131888332	0.00037092	PLEKHB2	1348	1
8	10677753	0.000740741	PINX1	1350	1
1	43831271	0.000370645	ELOVL1	1349	1
7	6075932	0.000368732	ANKRD61	1356	1
1	173839761	0.000727273	ZBTB37	1375	2
14	34419701	0.000377074	EGLN3	1326	1
20	32000393	0.000370096	SNTA1	1351	1
12	6644009	0.000363108	GAPDH	1377	1
7	116544433	0.000363108	CAPZA2	1377	1
9	114693568	0.000364431	UGCG	1372	1
1	163044300	0.000365764	RGS4	1367	1
16	30715431	0.00688905	SRCAP	1379	15

1	177906474	0.003690037	SEC16B	1355	9
2	220116427	0.000366569	TUBA4A	1364	1
9	80537162	0.00036523	GNAQ	1369	1
17	64685137	0.000379363	PRKCA	1318	1
5	64847408	0.00036846	CENPK	1357	1
4	177241304	0.000375375	SPCS3	1332	1
7	121568245	0.007251632	PTPRZ1	1379	20
3	56658534	0.003988397	FAM208A	1379	11
5	175956351	0.000735835	RNF44	1359	1
6	150263211	0.000377074	ULBP2	1326	1
9	35906474	0.000367647	HRCT1	1360	1
2	73635753	0.013415518	ALMS1	1379	35
16	72124637	0.000369549	TXNL4B	1353	1
22	20302945	0.000373692	DGCR6L	1338	1
16	18809355	0.000373134	ARL6IP1	1340	1
16	3080734	0.00074129	CCDC64B	1349	2
10	79739907	0.002902758	POLR3A	1378	8
22	29708446	0.000373692	GAS2L1	1338	1
3	186570963	0.000725163	ADIPOQ	1379	2
1	54605321	0.000364964	CDCP2	1370	1
15	83679040	0.000365764	C15orf40	1367	1
2	233271782	0.00037092	ALPPL2	1348	1
10	134595573	0.000371471	INPP5A	1346	1
16	67190472	0.000363108	TRADD	1377	1
20	35421800	0.003321033	SOGA1	1355	8
13	50276526	0.000373972	KPNA3	1337	1
3	47448851	0.004350979	PTPN23	1379	12
8	117783828	0.000364964	UTP23	1370	1
2	171654579	0.000369004	ERICH2	1355	1
1	65891034	0.000369549	LEPROT	1353	1
15	54305521	0.006268437	UNC13C	1356	17
14	24676687	0.000363636	TSSK4	1375	1
1	241953931	0.000362582	WDR64	1379	1
22	30733044	0.000364431	SF3A1	1372	1
17	39186305	0.000754148	KRTAP1-4	1326	1
6	153078266	0.000364697	VIP	1371	1
11	109294688	0.000371471	C11orf87	1346	1
9	127119130	0.000368189	PSMB7	1358	1
19	17442005	0.000364697	ANO8	1371	1
7	151846144	0.003263234	KMT2C	1379	9
22	41791929	0.000367107	TEF	1362	1
5	153432903	0.000365497	MFAP3	1368	1
1	167889859	0.000365764	MPC2	1367	1
9	131550678	0.000363372	TBC1D13	1376	1
20	44444534	0.000363636	UBE2C	1375	1
1	247875669	0.000732064	OR6F1	1366	2
3	52263962	0.000377644	TWF2	1324	1
17	17697184	0.004713561	RAI1	1379	11

17	41131187	0.000363372	PTGES3L	1376	1
5	68715547	0.000725689	MARVELD2	1378	2
10	26800762	0.000366032	APBB1IP	1366	1
4	48027289	0.000725689	NIPAL1	1378	2
10	115804252	0.0003663	ADRB1	1365	1
10	83635578	0.003625816	NRG3	1379	10
4	110603857	0.000363108	CCDC109B	1377	1
3	25773829	0.000365497	NGLY1	1368	1
3	195984700	0.000376506	PCYT1A	1328	1
2	61272960	0.000366838	PEX13	1363	1
2	27799765	0.003625816	C2orf16	1379	10
3	67659968	0.000367107	SUCLG2	1362	1
17	76420049	0.017699115	DNAH17	1356	39
2	231682490	0.000375657	CAB39	1331	1
6	106727683	0.000373134	ATG5	1340	1
3	108324261	0.002900653	DZIP3	1379	8
12	55248391	0.000371747	MUCL1	1345	1
13	58206979	0.003625816	PCDH17	1379	10
11	82984836	0.00036846	CCDC90B	1357	1
6	128040882	0.003625816	THEMIS	1379	9
19	58928343	0.000369549	ZNF584	1353	1
19	44679662	0.003625816	ZNF226	1379	8
12	133434057	0.000369822	CHFR	1352	1
2	38301610	0.000377074	CYP1B1	1326	1
1	51760077	0.000371747	TTC39A	1345	1
10	63450371	0.000364697	C10orf107	1371	1
10	114045865	0.000366032	TECTB	1366	1
12	85432052	0.003263234	LRRIQ1	1379	9
20	17596090	0.005076142	RRBP1	1379	14
11	123676641	0.000367647	OR6M1	1360	1
11	3660089	0.000362582	ART5	1379	1
1	9994917	0.000366569	LZIC	1364	1
17	72937905	0.003263234	OTOP3	1379	9
11	27016113	0.000363636	FIBIN	1375	1
1	54360168	0.000369276	DIO1	1354	1
1	192779323	0.000725689	RGS2	1378	2
10	105006354	0.000364964	RPEL1	1370	1
11	96092185	0.000362582	CCDC82	1379	1
9	138589455	0.000367377	SOHLH1	1361	1
7	75933338	0.00037679	HSPB1	1327	1
21	45732894	0.003633721	PFKL	1376	10
9	100193267	0.004713561	TDRD7	1379	13
2	39944270	0.000363636	TMEM178A	1375	1
1	31810093	0.000365497	ZCCHC17	1368	1
17	40125722	0.000372856	CNP	1341	1
4	69536146	0.00036523	UGT2B15	1369	1
6	132649187	0.000365764	MOXD1	1367	1
19	7998982	0.0003663	TIMM44	1365	1

6	33164356	0.000370096	RXRB	1351	1
2	169727988	0.0003663	SPC25	1365	1
2	73456592	0.000367918	PRADC1	1359	1
9	139699034	0.000732064	CCDC183	1366	2
6	33041263	0.001107829	HLA-DPA1	1354	1
1	54670798	0.000363108	MRPL37	1377	1
9	131513040	0.00036523	ZER1	1369	1
16	4016645	0.003628447	ADCY9	1378	10
11	22248900	0.003265602	ANO5	1378	8
1	45292347	0.002909091	PTCH2	1375	8
20	61468477	0.000366032	COL9A3	1366	1
1	158687224	0.000363636	OR6K3	1375	1
15	42211817	0.000372856	EHD4	1341	1
1	158582662	0.008701958	SPTA1	1379	20
10	121337168	0.000362582	TIAL1	1379	1
15	41680695	0.000363636	NDUFAF1	1375	1
22	31985505	0.002541757	SFI1	1377	6
1	110737387	0.000728332	SLC6A17	1373	2
8	104066131	0.000727273	ATP6V1C1	1375	2
13	114307189	0.000369549	ATP4B	1353	1
11	65780871	0.000363636	CST6	1375	1
1	9657000	0.002197802	TMEM201	1365	6
19	41105432	0.005899705	LTBP4	1356	11
9	113007110	0.000377358	TXN	1325	1
14	53226411	0.0003663	STYX	1365	1
17	7129328	0.003625816	DVL2	1379	9
1	74663994	0.004713561	FPGT-TNNI3K	1379	13
1	74663994	0.004713561	TNNI3K	1379	13
20	23549062	0.000371471	CST9L	1346	1
9	136217149	0.000365497	RPL7A	1368	1
10	871180	0.000728332	LARP4B	1373	2
10	91468973	0.00616836	KIF20B	1378	16
1	173883734	0.000365764	SERPINC1	1367	1
16	2747978	0.000366569	KCTD5	1364	1
1	235505583	0.000363108	GGPS1	1377	1
15	44858124	0.00688905	SPG11	1379	18
11	30902786	0.005076142	DCDC1	1379	11
17	8045617	0.004727273	PER1	1375	11
6	56965794	0.004713561	ZNF451	1379	13
14	32902812	0.006163887	AKAP6	1379	15
22	17983959	0.00479351	CECR2	1356	13
16	69752374	0.000370645	NQO1	1349	1
16	12061551	0.000363108	TNFRSF17	1377	1
9	16419549	0.005801305	BNC2	1379	14
11	47508777	0.000735294	CELF1	1360	1
19	58983420	0.000371747	ZNF324	1345	1
11	44956457	0.000750751	TP53I11	1332	1
10	115348750	0.007251632	NRAP	1379	16

19	53911625	0.000373692	ZNF765	1338	1
7	43684885	0.001088534	COA1	1378	3
6	144269135	0.000727802	PLAGL1	1374	1
1	152857221	0.000365497	SMCP	1368	1
19	43093011	0.000363901	CEACAM8	1374	1
1	120306950	0.000362845	HMGCS2	1378	1
1	110213922	0.000732601	GSTM2	1365	2
5	140242834	0.000381098	AC005609.1	1312	1
6	38652268	0.000364431	GLO1	1372	1
7	150417175	0.000369276	GIMAP1	1354	1
19	53269961	0.000377074	ZNF600	1326	1
2	188361701	0.000365497	TFPI	1368	1
5	122940515	0.000372856	CSNK1G3	1341	1
5	134678909	0.00036523	C5orf66	1369	1
20	62294213	0.004360465	RTEL1	1376	12
20	62294213	0.004360465	RTEL1-TNFRSF6B	1376	12
11	120298906	0.005079826	ARHGEF12	1378	12
16	15811022	0.002900653	MYH11	1379	8
20	5843981	0.000363901	C20orf196	1374	1
2	86481831	0.000364964	REEP1	1370	1
4	183267852	0.0070059	TENM3	1356	19
7	104703882	0.007251632	KMT2E	1379	16
12	100649833	0.000368189	DEPDC4	1358	1
4	123663425	0.002900653	BBS12	1379	8
15	64373323	0.000725163	FAM96A	1379	2
18	74561610	0.003988397	ZNF236	1379	10
5	33527391	0.004713561	ADAMTS12	1379	11
1	160648885	0.000364964	CD48	1370	1
15	45408414	0.00073046	DUOXA2	1369	2
7	128470701	0.00616836	FLNC	1378	16
19	36321859	0.004713561	NPHS1	1379	12
10	95556980	0.000363636	LGI1	1375	1
3	194061817	0.000372024	CPN2	1344	1
11	108264075	0.000363372	C11orf65	1376	1
19	33535225	0.000371195	RHPN2	1347	1
11	118081351	0.000363636	AMICA1	1375	1
19	4251079	0.000378215	CCDC94	1322	1
11	2186952	0.000373134	TH	1340	1
2	61420042	0.008339376	USP34	1379	23
12	6979258	0.000364964	TPI1	1370	1
2	191524620	0.000364166	NAB1	1373	1
11	126147384	0.000370645	FOXRED1	1349	1
14	95085570	0.00036523	SERPINA3	1369	1
19	12639500	0.000363108	ZNF564	1377	1
11	65161527	0.000369549	FRMD8	1353	1
1	161680616	0.000725163	FCRLA	1379	2
7	19156437	0.000370645	TWIST1	1349	1
11	65658852	0.000380518	CCDC85B	1314	1

3	49064303	0.000366032	IMPDH2	1366	1
10	85962796	0.003263234	CDHR1	1379	8
3	13360744	0.004354136	NUP210	1378	11
6	54214516	0.000364697	TINAG	1371	1
10	76936392	0.000374251	SAMD8	1336	1
3	53694225	0.006526468	CACNA1D	1379	18
17	18186053	0.004350979	TOP3A	1379	9
11	60666698	0.000373413	PRPF19	1339	1
12	122617919	0.000368732	MLXIP	1356	1
17	53499052	0.000371471	MMD	1346	1
15	72579619	0.000364964	CELF6	1370	1
16	49315228	0.000370645	CBLN1	1349	1
2	141004677	0.010877447	LRP1B	1379	27
11	64855937	0.000370645	TMEM262	1349	1
15	72454713	0.00037092	GRAMD2	1348	1
12	52380823	0.00037037	ACVR1B	1350	1
12	72175865	0.000738007	RAB21	1355	1
11	64889012	0.000366032	FAU	1366	1
9	124906614	0.0003663	NDUFA8	1365	1
20	3802886	0.00037037	AP5S1	1350	1
7	31735169	0.000366569	PPP1R17	1364	1
2	85270774	0.000372856	KCMF1	1341	1
2	96861118	0.000374251	STARD7	1336	1
16	21624030	0.000363108	METTL9	1377	1
22	26884453	0.000374532	SRRD	1335	1
2	239988468	0.000371471	HDAC4	1346	1
14	72055260	0.003988397	SIPA1L1	1379	11
22	24034568	0.000362845	RGL4	1378	1
19	1854730	0.00037679	KLF16	1327	1
14	39796202	0.000373972	CTAGE5	1337	1
15	35275137	0.000366569	ZNF770	1364	1
1	160388912	0.000364697	VANGL2	1371	1
5	90678635	0.000363108	ARRDC3	1377	1
3	133327486	0.00479351	TOPBP1	1356	12
11	5020486	0.000362582	OR51L1	1379	1
2	225630503	0.007743363	DOCK10	1356	17
17	1612796	0.000744048	TLCD2	1344	2
21	39795397	0.000368189	ERG	1358	1
2	127447832	0.000364964	GYPC	1370	1
2	26652500	0.000364166	DRC1	1373	1
16	30964566	0.000364431	ORAI3	1372	1
1	205687537	0.000369276	NUCKS1	1354	1
15	32926220	0.002538071	ARHGAP11A	1379	6
9	139379204	0.000374251	C9orf163	1336	1
2	183584781	0.004713561	DNAJC10	1379	12
13	47469809	0.000364166	HTR2A	1373	1
14	73190346	0.000368732	DPF3	1356	1
17	33904136	0.000365764	PEX12	1367	1

4	166215525	0.000364431	KLHL2	1372	1
6	116879141	0.000363636	FAM26D	1375	1
18	61325859	0.000363108	SERPINB3	1377	1
11	77553626	0.000364697	AAMDC	1371	1
14	105617357	0.000369822	JAG2	1352	1
5	179290681	0.004354136	TBC1D9B	1378	12
19	45153324	0.000371195	PVR	1347	1
1	232941067	0.005162242	MAP10	1356	13
1	11116780	0.000378501	SRM	1321	1
7	27142028	0.00037037	HOXA2	1350	1
8	2806854	0.011053795	CSMD1	1357	29
2	3691542	0.00036523	COLEC11	1369	1
19	33076845	0.000364964	PDCD5	1370	1
8	145748424	0.000377929	LRRC24	1323	1
11	77784160	0.000366838	NDUFC2	1363	1
1	2420656	0.00037037	PLCH2	1350	1
19	39336494	0.000374532	HNRNPL	1335	1
1	10494022	0.000374532	APITD1	1335	1
1	21139723	0.002900653	EIF4G3	1379	7
2	242343246	0.003988397	FARP2	1379	10
1	24463731	0.000366569	IL22RA1	1364	1
2	219526515	0.000369276	BCS1L	1354	1
11	47296559	0.003263234	MADD	1379	9
17	6483152	0.004354136	KIAA0753	1378	12
12	92814951	0.0003663	CLLU1OS	1365	1
12	81112709	0.000362845	MYF5	1378	1
5	169535302	0.000369549	FOXI1	1353	1
2	176043914	0.000367107	ATP5G3	1362	1
10	133784413	0.000367647	BNIP3	1360	1
22	44553944	0.00036523	PARVB	1369	1
1	200633097	0.000365497	DDX59	1368	1
10	99623774	0.000369549	GOLGA7B	1353	1
3	57619035	0.000728332	DENND6A	1373	2
17	27579191	0.000732064	CRYBA1	1366	2
5	150405047	0.000379939	GPX3	1316	1
1	2494665	0.000367647	TNFRSF14	1360	1
7	6370661	0.000372024	FAM220A	1344	1
20	31590431	0.00036523	SUN5	1369	1
19	9677290	0.00037037	ZNF121	1350	1
12	56384472	0.000363901	RAB5B	1374	1
11	111946302	0.000364697	C11orf57	1371	1
6	75968685	0.000377074	TMEM30A	1326	1
3	126270941	0.000365497	C3orf22	1368	1
4	79166405	0.010693215	FRAS1	1356	28
15	85201233	0.000379075	NMB	1319	1
17	26938788	0.000725163	SGK494	1379	2
14	102229303	0.00074129	PPP2R5C	1349	1
20	57242648	0.000366032	STX16	1366	1

15	73616523	0.000374813	HCN4	1334	1
11	5603094	0.000363108	OR52B6	1377	1
18	23724622	0.000728332	PSMA8	1373	2
10	48387952	0.00036523	RBP3	1369	1
4	42965074	0.000365764	GRXCR1	1367	1
2	127821591	0.000369822	BIN1	1352	1
3	127393418	0.00036846	ABTB1	1357	1
22	39621808	0.000375657	PDGFB	1331	1
19	36727773	0.000365764	ZNF146	1367	1
4	87022205	0.000369549	MAPK10	1353	1
12	16516970	0.000372578	MGST1	1342	1
2	36583563	0.004350979	CRIM1	1379	12
8	67049333	0.000367918	TRIM55	1359	1
19	8127100	0.000367918	CCL25	1359	1
1	16202821	0.007614213	SPEN	1379	18
1	1178243	0.00075188	FAM132A	1330	2
9	93639927	0.000363901	SYK	1374	1
7	150831593	0.000373972	AGAP3	1337	1
4	4199597	0.0003663	OTOP1	1365	1
2	231906050	0.000371471	C2orf72	1346	1
6	24843350	0.000370645	FAM65B	1349	1
2	113343812	0.000365497	CHCHD5	1368	1
19	11917219	0.000725163	ZNF491	1379	2
9	107548600	0.007614213	ABCA1	1379	20
22	24939854	0.000728332	GUCD1	1373	2
1	21800003	0.00036523	NBPF3	1369	1
20	3734755	0.002939015	C20orf27	1361	2
11	111784599	0.000366838	HSPB2	1363	1
5	53409225	0.00037037	ARL15	1350	1
14	69994521	0.000373134	PLEKHD1	1340	1
3	46415260	0.000363372	CCR5	1376	1
20	58441366	0.004713561	SYCP2	1379	10
12	113812767	0.000368189	PLBD2	1358	1
16	67719569	0.000375094	GFOD2	1333	1
2	86255166	0.006526468	POLR1A	1379	15
6	8430296	0.000362845	SLC35B3	1378	1
10	90774175	0.000364431	FAS	1372	1
12	93174066	0.004716981	EEA1	1378	12
7	55990925	0.000367918	MRPS17	1359	1
7	55990925	0.000367918	ZNF713	1359	1
19	46268857	0.000371471	SIX5	1346	1
17	17248129	0.000366838	NT5M	1363	1
6	30313273	0.000378788	RPP21	1320	1
1	92606685	0.000369276	BTBD8	1354	1
3	133557075	0.000366569	RAB6B	1364	1
4	3107105	0.005438724	HTT	1379	15
20	43723608	0.000372024	KCNS1	1344	1
19	6679430	0.003988397	C3	1379	11

3	141891297	0.000374813	GK5		1334	1
3	97595895	0.003625816	CRYBG3		1379	10
19	55019180	0.000732601	LAIR2		1365	2
2	3517685	0.000363372	ADI1		1376	1
1	89479820	0.000363372	GBP3		1376	1
11	44097138	0.000363372	ACCS		1376	1
12	88436604	0.000373413	C12orf29		1339	1
9	127262793	0.000380228	NR5A1		1315	1
17	44846000	0.000373134	WNT3		1340	1
4	818290	0.000370096	CPLX1		1351	1
1	150667298	0.00036523	GOLPH3L		1369	1
16	89264929	0.000380518	SLC22A31		1314	1
17	7749464	0.004350979	KDM6B		1379	11
6	83806733	0.003625816	DOPEY1		1379	10
5	179280403	0.000363372	C5orf45		1376	1
16	26147241	0.000369276	HS3ST4		1354	1
18	3447757	0.000362582	TGIF1		1379	1
15	67073463	0.000755858	SMAD6		1323	2
16	4834014	0.000377074		Sep-12	1326	1
1	24663244	0.000364964	GRHL3		1370	1
11	126277170	0.000363636	ST3GAL4		1375	1
8	38775526	0.000373972	PLEKHA2		1337	1
1	1459285	0.000374532	ATAD3A		1335	1
16	84065548	0.000379939	SLC38A8		1316	1
7	99273745	0.000377074	CYP3A5		1326	1
22	35943026	0.000364697	RASD2		1371	1
17	46620942	0.000372856	HOXB2		1341	1
10	72536994	0.00037092	TBATA		1348	1
2	135309647	0.000369276	TMEM163		1354	1
19	51297792	0.000368732	ACPT		1356	1
6	43476137	0.000373134	LRRC73		1340	1
7	141672921	0.000366032	TAS2R38		1366	1
1	38265466	0.000364166	MANEAL		1373	1
12	56846933	0.000366032	MIP		1366	1
16	67183733	0.000374532	B3GNT9		1335	1
5	36111296	0.002180233	LMBRD2		1376	5
10	70928253	0.000377074	VPS26A		1326	1
13	73649966	0.000374532	KLF5		1335	1
15	79606145	0.000363636	TMED3		1375	1
1	31742061	0.000369822	SNRNP40		1352	1
9	73027943	0.00037092	KLF9		1348	1
10	105048230	0.000373134	INA		1340	1
17	6352712	0.000368732	FAM64A		1356	1
21	46086760	0.000380518	KRTAP12-2		1314	1
7	100880765	0.000365497	CLDN15		1368	1
12	6058980	0.005809731	VWF		1377	14
8	95853735	0.004354136	INTS8		1378	12
12	52709127	0.000368189	KRT83		1358	1

1	44447459	0.000365497	B4GALT2	1368	1
1	154141800	0.000732064	TPM3	1366	2
11	18159207	0.000364697	MRGPRX3	1371	1
12	102302033	0.0003663	DRAM1	1365	1
16	3071808	0.000368732	TNFRSF12A	1356	1
1	149921630	0.000369004	OTUD7B	1355	1
3	131181619	0.000367377	MRPL3	1361	1
17	34842565	0.000364964	ZNHIT3	1370	1
5	156592902	0.000362582	FAM71B	1379	1
19	55652309	0.000372578	TNNT1	1342	1
19	3150219	0.00037092	GNA15	1348	1
2	74842209	0.000364697	M1AP	1371	1
19	7830536	0.000364431	CLEC4M	1372	1
13	50115935	0.000363901	RCBTB1	1374	1
2	27256971	0.000362845	TMEM214	1378	1
3	55504435	0.000372024	WNT5A	1344	1
2	28065988	0.000362845	RBKS	1378	1
6	35764981	0.000367918	CLPS	1359	1
1	32646965	0.000372856	TXLNA	1341	1
4	77189899	0.000372578	FAM47E	1342	1
11	18553914	0.000363372	UEVLD	1376	1
1	162737049	0.000364964	DDR2	1370	1
10	118427774	0.000366838	C10orf82	1363	1
14	64694275	0.003988397	ESR2	1379	11
5	173491239	0.000374532	NSG2	1335	1
19	4327224	0.000364964	STAP2	1370	1
19	7960506	0.005076142	LRRC8E	1379	12
11	65635333	0.000726744	EFEMP2	1376	2
12	111085110	0.000363108	TCTN1	1377	1
5	68805132	0.000364431	OCLN	1372	1
7	114655843	0.000363108	MDFIC	1377	1
20	44869870	0.000375094	CDH22	1333	1
17	4688687	0.000372578	VMO1	1342	1
4	103964557	0.004350979	SLC9B2	1379	8
19	6754080	0.003263234	SH2D3A	1379	9
5	134191147	0.000366838	C5orf24	1363	1
3	46001005	0.003988397	FYCO1	1379	11
2	165365278	0.000363636	GRB14	1375	1
19	47725053	0.000379075	BBC3	1319	1
18	61006034	0.000364697	KDSR	1371	1
22	38935358	0.000367377	DMC1	1361	1
10	13652105	0.000364431	PRPF18	1372	1
2	27535869	0.000364697	MPV17	1371	1
4	142147935	0.000364166	ZNF330	1373	1
18	29598961	0.000372024	RNF125	1344	1
1	33116085	0.000367647	ZBTB8OS	1360	1
1	85510877	0.00036523	MCOLN3	1369	1
11	116692247	0.000725163	APOA4	1379	2

10	104211186	0.000373692	C10orf95	1338	1
17	54872480	0.000369004	C17orf67	1355	1
9	135140174	0.007614213	SETX	1379	20
3	49734517	0.004354136	RNF123	1378	11
8	37727934	0.004350979	RAB11FIP1	1379	11
1	206944323	0.000365497	IL10	1368	1
20	307466	0.000368189	SOX12	1358	1
6	6654825	0.000380228	LY86	1315	1
19	901462	0.000378788	R3HDM4	1320	1
4	6642863	0.000368732	MRFAP1	1356	1
3	9594042	0.000369549	LHFPL4	1353	1
16	48117873	0.003988397	ABCC12	1379	11
1	192548449	0.000363901	RGS1	1374	1
7	98249021	0.000377644	NPTX2	1324	1
18	31322999	0.000373413	ASXL3	1339	1
7	134701865	0.004056047	AGBL3	1356	10
11	14889169	0.000363901	PDE3B	1374	1
16	28549354	0.00037037	NUPR1	1350	1
2	202025397	0.000363636	CFLAR	1375	1
16	53472932	0.003988397	RBL2	1379	10
5	135287000	0.000371747	LECT2	1345	1
4	41496578	0.003988397	LIMCH1	1379	8
10	73520636	0.000372578	C10orf54	1342	1
17	80721921	0.004059041	TBCD	1355	11
19	47535988	0.000367377	NPAS1	1361	1
9	106864780	0.004713561	SMC2	1379	10
12	75434912	0.000372024	KCNC2	1344	1
12	120572133	0.005076142	GCN1L1	1379	14
20	62608362	0.000366569	SAMD10	1364	1
10	73206153	0.012905605	CDH23	1356	34
10	74700992	0.000368732	PLA2G12B	1356	1
6	111310190	0.000378501	RPF2	1321	1
11	33113833	0.000363636	CSTF3	1375	1
6	26022162	0.000363636	HIST1H4A	1375	1
1	160208477	0.000371471	DCAF8	1346	1
1	201981159	0.000735294	ELF3	1360	1
2	46986934	0.000366838	SOCS5	1363	1
3	46757041	0.000372024	PRSS50	1344	1
22	18912644	0.000728332	PRODH	1373	2
17	73043637	0.000380228	KCTD2	1315	1
2	165548834	0.003988397	COBLL1	1379	10
2	27664659	0.000362845	NRBP1	1378	1
15	60297272	0.00036523	FOXB1	1369	1
1	156046862	0.00037037	MEX3A	1350	1
6	80406229	0.000379075	SH3BGRL2	1319	1
9	111705990	0.004350979	CTNNAL1	1379	12
12	6619887	0.005801305	NCAPD2	1379	15
1	19633575	0.000364431	AKR7A2	1372	1

3	169487160	0.000379939	ACTRT3	1316	1
15	57730661	0.002900653	CGNL1	1379	7
18	72343315	0.005162242	ZNF407	1356	14
8	146171484	0.000371195	ZNF16	1347	1
7	141720825	0.004056047	MGAM	1356	8
7	107569642	0.007251632	LAMB1	1379	19
17	61278274	0.004056047	TANC2	1356	11
7	150498651	0.000372578	TMEM176A	1342	1
10	5920246	0.000371471	ANKRD16	1346	1
11	134022878	0.003263234	NCAPD3	1379	8
5	169702802	0.000380807	LCP2	1313	1
6	35278328	0.000365764	DEF6	1367	1
6	27107273	0.000366569	HIST1H4I	1364	1
4	39478717	0.000757002	LIAS	1321	1
15	40630015	0.000378215	C15orf52	1322	1
3	130282181	0.008849558	COL6A6	1356	22
3	113013572	0.006163887	WDR52	1379	17
1	85036363	0.000364431	CTBS	1372	1
3	157818051	0.000363372	SHOX2	1376	1
19	37129748	0.000363636	ZNF461	1375	1
15	31318381	0.003625816	TRPM1	1379	10
8	101541940	0.000363636	ANKRD46	1375	1
11	124190035	0.000363636	OR8D2	1375	1
1	227921266	0.000377358	JMJD4	1325	1
12	132636187	0.000377644	NOC4L	1324	1
16	3025350	0.000378788	PKMYT1	1320	1
6	24785863	0.000367918	GMNN	1359	1
17	48465439	0.000366032	LRRC59	1366	1
2	160807931	0.003263234	PLA2R1	1379	9
2	98264533	0.000370096	COX5B	1351	1
18	77679214	0.000377358	PQLC1	1325	1
9	116060121	0.00037092	RNF183	1348	1
16	56487311	0.003628447	OGFOD1	1378	10
15	43803393	0.007614213	MAP1A	1379	19
15	78452527	0.000370096	IDH3A	1351	1
9	14759813	0.004424779	FREM1	1356	12
6	42906436	0.000374251	CNPY3	1336	1
5	125939692	0.000728332	PHAX	1373	2
19	46543809	0.0003663	IGFL4	1365	1
1	40363546	0.000365764	MYCL	1367	1
11	118011988	0.000374251	SCN4B	1336	1
11	60233630	0.000362845	MS4A1	1378	1
12	88388431	0.000364166	C12orf50	1373	1
14	50619844	0.000364697	SOS2	1371	1
19	10444135	0.000372024	RAVER1	1344	1
2	21360361	0.005555556	TDRD15	1350	15
22	17072624	0.000363108	CCT8L2	1377	1
4	128851893	0.000363108	MFSD8	1377	1

17	6704171	0.000364964	TEKT1	1370	1
14	31576051	0.005801305	HECTD1	1379	16
10	75406984	0.003633721	SYNPO2L	1376	10
5	137708508	0.002902758	KDM3B	1378	8
2	71740848	0.005438724	DYSF	1379	14
12	56477540	0.005076142	ERBB3	1379	13
16	30004552	0.004713561	HIRIP3	1379	11
5	42801365	0.000378501	SEPP1	1321	1
19	19611959	0.000377358	GATAD2A	1325	1
2	73959357	0.000365497	TPRKB	1368	1
15	41245813	0.000378788	CHAC1	1320	1
3	189038583	0.000364431	TPRG1	1372	1
1	203055046	0.000364166	MYOG	1373	1
8	10464988	0.011240029	RP1L1	1379	29
11	64323494	0.003628447	SLC22A11	1378	8
3	78667117	0.005899705	ROBO1	1356	16
7	44621047	0.000364431	TMED4	1372	1
5	112090681	0.005801305	APC	1379	16
11	75298321	0.000363372	MAP6	1376	1
10	334311	0.003265602	DIP2C	1378	9
1	38171123	0.000731529	CDCA8	1367	1
14	89082568	0.005162242	EML5	1356	14
14	22102770	0.000369822	OR10G2	1352	1
8	35406893	0.003991292	UNC5D	1378	11
15	23932351	0.000377074	NDN	1326	1
22	24437590	0.004716981	CABIN1	1378	13
11	67046980	0.00037679	ADRBK1	1327	1
6	33626538	0.008345428	ITPR3	1378	22
19	15131343	0.000364431	CCDC105	1372	1
20	56227354	0.000374532	PMEPA1	1335	1
6	152456363	0.025380711	SYNE1	1379	59
11	65385876	0.004424779	PCNXL3	1356	11
1	232534895	0.005076142	SIPA1L2	1379	13
1	39494413	0.0003663	NDUFS5	1365	1
14	96758374	0.005805515	ATG2B	1378	14
14	23495336	0.000378788	PSMB5	1320	1
8	133627287	0.000365764	LRRC6	1367	1
7	128505448	0.000364964	ATP6V1F	1370	1
6	55922466	0.005162242	COL21A1	1356	14
6	56347503	0.024655547	DST	1379	65
13	43361016	0.000369276	FAM216B	1354	1
1	233122195	0.004056047	PCNXL2	1356	10
1	161017695	0.004350979	ARHGAP30	1379	12
3	127323467	0.004713561	MCM2	1379	13
3	182897443	0.006526468	MCF2L2	1379	15
19	21106223	0.000368732	ZNF85	1356	1
3	193002723	0.005076142	ATP13A5	1379	13
12	44189491	0.00037037	TWF1	1350	1

4	68610474	0.000363901	GNRHR	1374	1
5	71739863	0.004713561	ZNF366	1379	10
6	159642722	0.003687316	FNDC1	1356	10
15	42927060	0.007743363	STARD9	1356	16
21	33043900	0.004350979	SCAF4	1379	11
3	119219688	0.000371195	TIMMDC1	1347	1
9	114131387	0.006268437	KIAA0368	1356	15
13	111995181	0.000366569	TEX29	1364	1
16	88748057	0.000380807	SNAI3	1313	1
9	131730824	0.004350979	NUP188	1379	11
3	150840666	0.004354136	MED12L	1378	12
15	89860667	0.003265602	POLG	1378	8
12	48177934	0.003265602	HDAC7	1378	7
6	137519510	0.011240029	IFNGR1	1379	15
6	32781250	0.000371195	HLA-DOB	1347	1
8	1998935	0.011248186	MYOM2	1378	21
12	22440163	0.000377644	ST8SIA1	1324	1
8	25293010	0.000375375	KCTD9	1332	1
14	68123249	0.00036846	VTI1B	1357	1
4	3317944	0.004720407	RGS12	1377	12
3	36869779	0.009218289	TRANK1	1356	23
13	28010009	0.000372024	MTIF3	1344	1
22	21272506	0.000373972	CRKL	1337	1
8	124978291	0.004713561	FER1L6	1379	13
1	100327840	0.005438724	AGL	1379	12
17	29161451	0.003625816	ATAD5	1379	10
6	30036995	0.000368189	PPP1R11	1358	1
1	249108730	0.000366569	SH3BP5L	1364	1
12	16109930	0.003323486	DERA	1354	7
2	85663611	0.00037092	SH2D6	1348	1
3	14187517	0.005162242	XPC	1356	13
1	227216423	0.003988397	CDC42BPA	1379	11
19	13325057	0.004062038	CACNA1A	1354	9
14	51372218	0.004350979	PYGL	1379	11
19	48343079	0.000373692	CRX	1338	1
14	60574400	0.00479351	PCNXL4	1356	13
1	55224314	0.000726744	PARS2	1376	2
2	201399802	0.003991292	SGOL2	1378	10
2	109964137	0.00479351	SH3RF3	1356	12
9	100963796	0.003988397	TBC1D2	1379	10
7	158896540	0.000730994	VIPR2	1368	2
2	219503204	0.00617284	ZNF142	1377	16
10	108337221	0.004713561	SORCS1	1379	13
1	43315408	0.000371471	ZNF691	1346	1
2	11721018	0.006163887	GREB1	1379	16
6	129380938	0.013052937	LAMA2	1379	32
13	46054278	0.002900653	COG3	1379	8
2	211447411	0.006163887	CPS1	1379	17

5	149501562	0.000367107	PDGFRB	1362	1
4	177036993	0.003988397	WDR17	1379	11
6	127476460	0.000372301	RSPO3	1343	1
11	62285025	0.011248186	AHNAK	1378	29
20	60885505	0.006919155	LAMA5	1373	13
3	113697838	0.004350979	KIAA1407	1379	10
20	25290208	0.000369276	ABHD12	1354	1
11	57982702	0.000726744	OR1S1	1376	1
3	50325919	0.005162242	IFRD2	1356	12
11	107197753	0.005899705	CWF19L2	1356	12
11	71260182	0.000375657	KRTAP5-9	1331	1
4	85594091	0.006526468	WDFY3	1379	17
19	3728656	0.004360465	TJP3	1376	11
20	35219689	0.000368189	TGIF2	1358	1
7	103155796	0.008701958	RELN	1379	18
9	5919826	0.006268437	KIAA2026	1356	17
17	67077266	0.006163887	ABCA6	1379	14
1	29585030	0.00399419	PTPRU	1377	11
22	36684443	0.004713561	MYH9	1379	12
1	225155132	0.010152284	DNAH14	1379	27
15	90333695	0.005446623	ANPEP	1377	14
6	7182209	0.005801305	RREB1	1379	15
6	91257073	0.000368189	MAP3K7	1358	1
3	176769343	0.000371471	TBL1XR1	1346	1
15	75137920	0.000380807	SCAMP2	1313	1
7	74133216	0.000372856	GTF2I	1341	1
12	123352025	0.000364964	VPS37B	1370	1
14	91059914	0.003265602	TTC7B	1378	7
6	53372404	0.000368732	GCLC	1356	1
2	74450046	0.005083515	SLC4A5	1377	13
5	666183	0.000364431	TPPP	1372	1
12	131291535	0.00036846	STX2	1357	1
7	50367245	0.000371747	IKZF1	1345	1
6	159401805	0.001137225	RSPH3	1319	1
7	130135262	0.000369822	MEST	1352	1
15	84373240	0.006163887	ADAMTSL3	1379	16
18	54346648	0.005076142	WDR7	1379	13
2	85768756	0.000369276	MAT2A	1354	1
13	35517109	0.004056047	NBEA	1356	10
12	112130623	0.005438724	ACAD10	1379	13
7	107800928	0.005801305	NRCAM	1379	11
1	26370887	0.000373134	SLC30A2	1340	1
4	46967054	0.000372024	GABRA4	1344	1
6	131931370	0.000371195	MED23	1347	1
13	100634995	0.000375094	ZIC2	1333	1
3	136701120	0.000364166	IL20RB	1373	1
6	139488008	0.000372578	HECA	1342	1
1	47717267	0.003263234	STIL	1379	8

11	56431339	0.000362582	OR5AR1	1379	1
19	50028771	0.00037037	FCGRT	1350	1
1	167517356	0.000367647	CREG1	1360	1
16	3533587	0.000369004	NAA60	1355	1
5	66389994	0.005530973	MAST4	1356	15
19	4294654	0.000373692	TMIGD2	1338	1
5	118810129	0.004350979	HSD17B4	1379	11
19	21606231	0.000363108	ZNF493	1377	1
2	241813454	0.000369822	AGXT	1352	1
17	3365864	0.000363901	SPATA22	1374	1
10	11505023	0.00479351	USP6NL	1356	11
1	19235114	0.000368732	IFFO2	1356	1
5	70759920	0.004713561	BDP1	1379	12
3	159706871	0.000380807	IL12A	1313	1
16	67671590	0.000365764	CTCF	1367	1
15	43019926	0.003988397	CDAN1	1379	10
14	36300631	0.000367918	BRMS1L	1359	1
4	8588816	0.000373134	GPR78	1340	1
12	40815936	0.005162242	MUC19	1356	14
17	78013717	0.005809731	CCDC40	1377	14
10	1043161	0.005438724	GTPBP4	1379	14
7	79818543	0.00075358	GNAI1	1327	1
10	67680156	0.005438724	CTNNA3	1379	13
11	61732300	0.000381388	FTH1	1311	1
16	66945811	0.004723837	CDH16	1376	8
5	176832747	0.000363372	F12	1376	1
7	100675829	0.005801305	MUC17	1379	15
16	89293254	0.005154639	ZNF778	1358	13
2	192548460	0.000366032	NABP1	1366	1
8	146115445	0.000369822	ZNF250	1352	1
15	34354941	0.000363372	CHRM5	1376	1
18	58039105	0.000362582	MC4R	1379	1
5	177636382	0.000372856	HNRNPAB	1341	1
6	170594221	0.000371195	DLL1	1347	1
2	220029038	0.000381388	SLC23A3	1311	1
7	98495422	0.005801305	TRRAP	1379	15
5	137801484	0.000363901	EGR1	1374	1
19	36236873	0.000371747	AC002398.9	1345	1
19	36236873	0.000371747	PSENEN	1345	1
11	32421563	0.000368732	WT1	1356	1
3	128889357	0.000363901	CNBP	1374	1
9	139571577	0.000372024	AGPAT2	1344	1
11	5068267	0.000363372	OR52J3	1376	1
2	131487488	0.000363636	GPR148	1375	1
3	138375075	0.004713561	PIK3CB	1379	11
15	69696114	0.000362845	PAQR5	1378	1
17	31324475	0.000363108	SPACA3	1377	1
17	8660796	0.000367918	SPDYE4	1359	1

15	49935714	0.000363108	DTWD1	1377	1
7	100730613	0.003265602	TRIM56	1378	8
9	116085137	0.000367107	WDR31	1362	1
2	201369667	0.00036846	KCTD18	1357	1
10	102247402	0.00617284	SEC31B	1377	11
20	43109084	0.000363901	TTPAL	1374	1
8	12943384	0.006163887	DLC1	1379	17
19	52249505	0.000363636	FPR1	1375	1
14	102028455	0.000367647	DIO3	1360	1
20	40710604	0.003625816	PTPRT	1379	10
3	172473325	0.004713561	ECT2	1379	13
19	2757348	0.000375375	SGTA	1332	1
3	194344376	0.000380518	TMEM44	1314	1
12	9305535	0.004713561	PZP	1379	12
3	10291156	0.004716981	TATDN2	1378	8
1	5927110	0.006268437	NPHP4	1356	15
2	54102790	0.005438724	PSME4	1379	15
6	100957360	0.005438724	ASCC3	1379	14
22	50885621	0.004357298	SBF1	1377	12
4	186515083	0.006163887	SORBS2	1379	16
1	55547003	0.006268437	USP24	1356	17
1	40668159	0.005801305	RLF	1379	13
6	31112739	0.003625816	CCHCR1	1379	10
1	118506462	0.006526468	SPAG17	1379	17
6	158834166	0.004350979	TULP4	1379	12
1	144865809	0.00906454	PDE4DIP	1379	24
1	228402607	0.016605166	OBSCN	1355	42
17	67247976	0.004350979	ABCA5	1379	12
1	78031808	0.003263234	ZZZ3	1379	8
9	17273795	0.005076142	CNTLN	1379	13
1	156811226	0.004716981	INSRR	1378	11
10	49934020	0.00479351	WDFY4	1356	13
5	55398357	0.004350979	ANKRD55	1379	11
15	89790898	0.004350979	FANCI	1379	12
3	65342112	0.004713561	MAGI1	1379	13
1	10699945	0.004395604	CASZ1	1365	11
7	43447317	0.003988397	HECW1	1379	11
9	123852592	0.005438724	CNTRL	1379	15
9	117786277	0.007251632	TNC	1379	13
1	150337216	0.005162242	RPRD2	1356	14
20	16316659	0.005801305	KIF16B	1379	13
14	74823578	0.004005827	VRTN	1373	11
14	23883232	0.005076142	MYH7	1379	13
6	30670581	0.005801305	MDC1	1379	13
6	158449817	0.005438724	SYNJ2	1379	12
22	26164433	0.006642066	MYO18B	1355	16
10	27303611	0.006163887	ANKRD26	1379	16
10	24762369	0.005801305	KIAA1217	1379	16

18	56191193	0.005438724	ALPK2	1379	14
12	56993626	0.0070059	BAZ2A	1356	19
10	13693970	0.005801305	FRMD4A	1379	11
7	149543344	0.006637168	ZNF862	1356	17
8	9413600	0.006163887	TNKS	1379	16
1	200944761	0.005079826	KIF21B	1378	13
8	41791788	0.005076142	KAT6A	1379	12
5	127624229	0.005801305	FBN2	1379	13
6	87965916	0.004424779	ZNF292	1356	12
4	152048855	0.002538071	SH3D19	1379	7
6	27419164	0.004350979	ZNF184	1379	12
3	1337465	0.005076142	CNTN6	1379	13
11	73744865	0.005801305	C2CD3	1379	15
17	61864546	0.003988397	DDX42	1379	9
4	113508884	0.003625816	C4orf21	1379	9
16	28837117	0.003991292	ATXN2L	1378	11
3	171830313	0.005801305	FNDC3B	1379	14
6	70642687	0.002904866	COL19A1	1377	8
5	141023826	0.004424779	FCHSD1	1356	12
1	33772924	0	A3GALT2	1337	0
17	7983435	0	AC129492.6	1338	0
X	15580093	0.003272727	ACE2	1375	6
X	23723927	0.000380228	ACOT9	1315	1
X	70824077	0.000372301	ACRC	1343	1
X	108911395	0.000372856	ACSL4	1341	1
7	149990474	0	ACTR3C	1327	0
X	127185627	0.001090909	ACTRT1	1375	3
X	48929654	0.000371747	AF196779.12	1345	1
X	148072810	0.000369004	AFF2	1355	1
X	115304134	0.000363901	AGTR2	1374	1
2	61413590	0	AHSA2	1347	0
X	129281741	0.000737463	AIFM1	1356	1
9	130634108	0	AK1	1376	0
X	119037338	0.001455604	AKAP14	1374	2
X	49957416	0.001088534	AKAP4	1378	3
X	55039978	0.000373692	ALAS2	1338	1
X	110924456	0.000368189	ALG13	1358	1
X	11316854	0.000366838	AMELX	1363	1
X	63410139	0.003270349	AMER1	1376	5
1	110051212	0	AMIGO1	1360	0
5	10618537	0	ANKRD33B	1315	0
X	55033744	0.000755287	APEX2	1324	1
6	31624399	0	APOM	1350	0
X	84310926	0.000372856	APOOL	1341	1
17	58538142	0.000364431	APPBP2	1372	1
X	66765619	0.001828822	AR	1367	3
X	47426138	0.00110538	ARAF	1357	2
X	130218916	0.000726744	ARHGAP36	1376	1

X	153186178	0.000377074	ARHGAP4	1326	1
X	11206879	0.001100514	ARHGAP6	1363	3
X	135767885	0.003628447	ARHGEF6	1378	6
13	50204683	0	ARL11	1349	0
X	100243427	0.000375375	ARL13A	1332	1
X	100808226	0.001131222	ARMCX1	1326	1
X	100911733	0.001092498	ARMCX2	1373	2
X	100880487	0.001089325	ARMCX3	1377	2
X	100744139	0.000375657	ARMCX4	1331	1
X	100871343	0.000729927	ARMCX6	1370	2
X	69496117	0.001464129	ARR3	1366	3
X	2835935	0.00147929	ARSD	1352	2
X	2986142	0.000730994	ARSF	1368	2
X	2947326	0.000728863	ARSH	1372	1
X	15301704	0.000362845	ASB11	1378	1
14	51057727	0	ATL1	543	0
X	138832283	0.000729395	ATP11C	1371	2
X	119509350	0.001098097	ATP1B4	1366	2
X	152806942	0.001452433	ATP2B3	1377	4
3	113503269	0	ATP6V1A	1353	0
X	77264747	0.003631082	ATP7A	1377	6
1	47124366	0	ATPAF1	1374	0
X	76777820	0.003628447	ATRX	1378	7
X	153171435	0.001107829	AVPR2	1354	3
X	69454600	0.000729927	AWAT1	1370	2
18	29264323	0	B4GALT6	1362	0
X	152988615	0.00074239	BCAP31	1347	1
X	39923679	0.004363636	BCOR	1375	7
X	129147104	0.005442671	BCORL1	1378	12
X	18189234	0.000363901	BEND2	1374	1
X	102564524	0.000367107	BEX2	1362	1
X	152772032	0.001100514	BGN	1363	2
X	102005430	0.000367107	BHLHB9	1362	1
20	61867717	0	BIRC7	1368	0
X	50658801	0.00181686	BMP15	1376	5
2	242501784	0	BOK	1350	0
X	79932726	0.001815541	BRWD3	1377	4
X	100611792	0.000372856	BTK	1341	1
4	76489582	0	C4orf26	1361	0
4	71024436	0	C4orf40	1359	0
6	31079317	0	C6orf15	1368	0
9	139929413	0	C9orf139	1368	0
X	49065034	0.002181818	CACNA1F	1375	4
19	54515333	0	CACNG6	1340	0
X	110494914	0.000729927	CAPN6	1370	2
X	41469214	0.000732064	CASK	1366	2
X	48920024	0.00074184	CCDC120	1348	2
19	11533443	0	CCDC151	1360	0

X	133379071	0.000378215	CCDC160	1322	1
X	50051671	0.001087745	CCNB3	1379	3
11	118223131	0	CD3G	1355	0
X	135741431	0.001092498	CD40LG	1373	2
X	149963896	0.000371747	CD99L2	1345	1
X	47086429	0.000373413	CDK16	1339	1
X	18622720	0.002902758	CDKL5	1378	5
X	72667341	0.000740192	CDX4	1351	2
19	42132329	0	CEACAM4	1366	0
X	100383750	0.001818182	CENPI	1375	3
X	47483768	0.000729927	CFP	1370	1
X	36103528	0.000728863	CHDC2	1372	1
X	109919533	0.000364431	CHRDL1	1372	1
16	69154430	0	CHTF8	1373	0
X	71521803	0.000744602	CITED1	1343	1
X	10181945	0.000380518	CLCN4	1314	1
X	49851412	0.001814224	CLCN5	1378	5
17	6981403	0	CLEC10A	1352	0
12	8612294	0	CLEC6A	1367	0
X	150911673	0.001093294	CNGA2	1372	3
X	21545012	0.000735294	CNKSR2	1360	2
6	88854988	0	CNR1	1373	0
X	107821533	0.005094614	COL4A5	1374	9
X	107408222	0.002180233	COL4A6	1376	5
4	83987668	0	COPS4	1355	0
12	56664066	0	COQ10A	1351	0
7	1012865	0	COX19	1374	0
X	88008933	0.000364964	CPXCR1	1370	1
X	100077296	0.000732064	CSTF2	1366	1
X	120008766	0.000730994	CT47B1	1368	1
X	153881555	0.000378501	CTAG2	1321	1
X	16608938	0.000729927	CTPS2	1370	2
1	150772083	0	CTSK	1349	0
X	119663986	0.002538071	CUL4B	1379	6
X	30577744	0.000747943	CXorf21	1337	1
X	19973664	0.001815541	CXorf23	1377	4
X	37850195	0.000734214	CXorf27	1362	1
X	36328959	0.002212389	CXorf30	1356	5
X	105855726	0.002554745	CXorf57	1370	4
X	23953370	0.000734214	CXorf58	1362	2
X	125954938	0.000372024	CXorf64	1344	1
X	70326222	0.000727802	CXorf65	1374	1
X	37651276	0.00255848	CYBB	1368	4
X	83128657	0.000380807	CYLC1	1313	1
2	219678840	0	CYP27A1	1369	0
22	42525761	0	CYP2D6	1332	0
X	77528891	0.002180233	CYSLTR1	1376	3
X	125685676	0.00074239	DCAF12L1	1347	2

X	125298844	0.00148368	DCAF12L2	1348	3
X	27766061	0.001099707	DCAF8L2	1364	2
X	134685926	0.002545455	DDX26B	1375	5
X	41201891	0.00109569	DDX3X	1369	2
X	23018526	0.003673769	DDX53	1361	6
20	29965208	0	DEFB119	1376	0
8	11842040	0	DEFB135	1370	0
X	69421751	0.001815541	DGAT2L6	1377	3
X	95993712	0.001457726	DIAPH2	1372	2
X	69669271	0.002549162	DLG3	1373	4
X	31187612	0.010522496	DMD	1378	22
15	78562936	0	DNAJA4	1364	0
X	117695374	0.001824818	DOCK11	1370	3
17	18004845	0	DRG2	1360	0
X	100503211	0.001458789	DRP2	1371	2
10	22498468	0	EBLN1	1235	0
X	48382232	0.00073046	EBP	1369	2
X	69255367	0.000732601	EDA	1365	1
X	65819517	0.001818182	EDA2R	1375	2
15	74932949	0	EDC3	1366	0
X	44109481	0.001478197	EFHC2	1353	2
X	13626511	0.001465201	EGFL6	1365	2
X	129200875	0.001111111	ELF4	1350	2
X	153609432	0.00036523	EMD	1369	1
X	129761949	0.000754717	ENOX2	1325	1
X	71425264	0.001815541	ERCC6L	1377	4
6	152201899	0	ESR1	1338	0
13	37583420	0	EXOSC8	1362	0
1	94998715	0	F3	1376	0
X	154129716	0.001463058	F8	1367	2
X	138619327	0.001453488	F9	1376	3
X	57318933	0.002900653	FAAH2	1379	6
X	55185654	0.000371471	FAM104B	1346	1
X	133930161	0.000371471	FAM122B	1346	1
X	133941583	0.001450326	FAM122C	1379	3
X	134185930	0.000379363	FAM127B	1318	1
X	68725676	0.00255848	FAM155B	1368	3
X	103430797	0.000364431	FAM199X	1372	1
X	79698979	0.000363108	FAM46D	1377	1
X	34148288	0.002539913	FAM47A	1378	6
X	34961525	0.001090116	FAM47B	1376	3
X	37027177	0.001088534	FAM47C	1378	2
X	8767076	0.001102941	FAM9A	1360	2
X	14871172	0.001451379	FANCB	1378	3
1	161476205	0	FCGR2A	1351	0
X	135290034	0.00037037	FHL1	1350	1
X	15365360	0.001458789	FIGF	1371	2
X	153577764	0.007267442	FLNA	1376	14

X	147106464	0.000739645	FMR1NB	1352	1
X	70321128	0.001480385	FOXO4	1351	1
X	131212072	0.000751315	FRMD7	1331	1
X	106769923	0.005530973	FRMPD3	1356	8
X	12736537	0.00036846	FRMPD4	1357	1
X	153761988	0.001461988	G6PD	1368	3
X	153927649	0.001094092	GAB3	1371	2
X	151128398	0.0003663	GABRE	1365	1
X	151815430	0.000362582	GABRQ	1379	1
X	48650373	0.001090116	GATA1	1376	2
6	52993104	0	GCM1	1354	0
X	70444062	0.00074239	GJB1	1347	2
X	100652908	0.001453488	GLA	1376	2
X	14592679	0.000381388	GLRA2	1311	1
X	102977085	0.000726216	GLRA4	1377	2
X	120182982	0.000726216	GLUD2	1377	2
6	49494247	0	GLYATL3	1352	0
15	52425618	0	GNB5	1369	0
X	54578747	0.000365497	GNL3L	1368	1
X	132887922	0.000365497	GPC3	1368	1
X	132458228	0.000728332	GPC4	1373	2
X	48972666	0.000751315	GPKOW	1331	1
X	136112579	0.00073046	GPR101	1369	1
X	135405026	0.011240029	GPR112	1379	20
X	9727442	0.001121076	GPR143	1338	1
11	67219271	0	GPR152	1342	0
X	53106165	0.000367107	GPR173	1362	1
X	78427196	0.000363372	GPR174	1376	1
X	41555337	0.000726744	GPR34	1376	1
X	150348599	0.003263234	GPR50	1379	6
X	19017273	0.002915452	GPR64	1372	3
X	101909281	0.003265602	GPRASP1	1378	7
X	101969880	0.000745156	GPRASP2	1342	2
X	48846091	0.001089325	GRIPAP1	1377	2
X	16168750	0.002175489	GRPR	1379	4
X	51487113	0.000729395	GSPT2	1371	1
6	52699066	0	GSTA5	1375	0
X	108631722	0.004713561	GUCY2F	1379	7
X	2774538	0.001097293	GYG2	1367	2
X	103267315	0.00109569	H2BFWT	1369	2
X	152721751	0.000370096	HAUS7	1351	1
5	156525891	0	HAVCR2	1326	0
X	153219080	0.000762777	HCFC1	1311	1
X	48661401	0.001094092	HDAC6	1371	2
X	71681926	0.001103753	HDAC8	1359	2
X	6995314	0.002217295	HDHD1	1353	2
X	83599428	0.001090909	HDX	1375	3
X	65392197	0.003267974	HEPH	1377	7

6	32552025	0	HLA-DRB1	1361	0
10	103826706	0	HPS6	1355	0
X	132091217	0.000762777	HS6ST2	1311	1
X	53459290	0.000731529	HSD17B10	1367	1
X	135592295	0.002197802	HTATSF1	1365	4
X	53560999	0.004354136	HUWE1	1378	10
X	153051392	0.000371747	IDH3G	1345	1
X	148586622	0.000374251	IDS	1336	1
14	94594917	0	IFI27L2	1341	0
9	21481264	0	IFNE	1359	0
7	45931535	0	IGFBP1	1357	0
X	130415846	0.000729927	IGSF1	1370	2
X	153780290	0.001110289	IKBKG	1351	2
X	114245387	0.001137225	IL13RA2	1319	1
2	103040381	0	IL18RAP	1369	0
X	105011089	0.001089325	IL1RAPL2	1377	2
X	70329088	0.002177068	IL2RG	1378	3
X	53271037	0.000373972	IQSEC2	1337	1
X	107976069	0.004360465	IRS4	1376	8
X	54783644	0.000733676	ITIH6	1363	2
X	78618510	0.000748503	ITM2A	1336	1
X	46917719	0.00036523	JADE3	1369	1
17	40269089	0	KAT2A	1344	0
X	48826426	0.000740741	KCND1	1350	2
X	108868066	0.000372856	KCNE1L	1341	1
14	90651134	0	KCNK13	1348	0
22	37457190	0	KCTD17	1327	0
11	94759385	0	KDM4E	1331	0
X	53222346	0.001090116	KDM5C	1376	3
X	44870234	0.004713561	KDM6A	1379	8
X	118219424	0.003321033	KIAA1210	1355	8
X	73962867	0.000368732	KIAA2022	1356	1
X	69519003	0.001819505	KIF4A	1374	4
19	16437800	0	KLF2	1333	0
2	207988613	0	KLF7	43	0
X	56292060	0.001456664	KLF8	1373	2
X	117043384	0.000727273	KLHL13	1375	2
X	86773024	0.001096491	KLHL4	1368	2
17	38978452	0	KRT10	1365	0
21	45977995	0	KRTAP10-3	1342	0
21	31973500	0	KRTAP22-1	1362	0
17	39274404	0	KRTAP4-11	1356	0
X	153129864	0.002197802	L1CAM	1365	4
X	119589293	0.000365764	LAMP2	1367	1
X	37534927	0.000374813	LANCL3	1334	1
1	154966231	0	LENEP	1369	0
X	111903914	0.001096491	LHFPL1	1368	2
17	35300363	0	LHX1	1336	0

	16	48382163	0	LONP2	1329	0
X		118116878	0.001456664	LONRF3	1373	2
X		78010560	0.001089325	LPAR4	1377	2
X		114357167	0.000375094	LRCH2	1333	1
	17	42113647	0	LSM12	1366	0
X		114541034	0.000368732	LUZP4	1356	1
X		152482131	0.000731529	MAGEA1	1367	2
X		148797584	0.000369004	MAGEA11	1355	1
X		151092227	0.000367918	MAGEA4	1359	1
X		149013888	0.000728332	MAGEA8	1373	1
X		30269197	0.000725689	MAGEB1	1378	2
X		27840324	0.000369549	MAGEB10	1353	1
X		35820621	0.000728863	MAGEB16	1372	2
X		26157777	0.00146092	MAGEB18	1369	2
X		30237212	0.00073046	MAGEB2	1369	2
X		30260320	0.001090909	MAGEB4	1375	3
X		26235659	0.00037037	MAGEB5	1350	1
X		26212229	0	MAGEB6	1360	0
X		140993266	0.002900653	MAGEC1	1379	4
X		141291713	0.00073692	MAGEC2	1357	1
X		140969335	0.002538071	MAGEC3	1379	6
X		51638372	0.001827485	MAGED1	1368	3
X		54836399	0.000739098	MAGED2	1353	2
X		75649474	0.002183406	MAGEE1	1374	5
X		55478974	0.000754148	MAGEH1	1326	1
	15	23890230	0	MAGEL2	1346	0
X		49021412	0.001107829	MAGIX	1354	2
X		77096748	0.000730994	MAGT1	1368	1
X		149638650	0.006181818	MAMLD1	1375	8
X		43656409	0.001461988	MAOB	1368	2
	17	12011131	0	MAP2K4	1331	0
X		19378937	0.003633721	MAP3K15	1376	8
X		20029078	0.001090116	MAP7D2	1376	2
X		138664628	0.001091703	MCF2	1374	3
X		119739976	0.000745712	MCTS1	1341	1
X		153296174	0.001454545	MECP2	1375	3
X		70342358	0.001815541	MED12	1377	5
X		40568669	0.000738007	MED14	1355	1
	17	41720920	0	MEOX1	1325	0
	19	3546079	0	MFSD12	1357	0
X		10535323	0.000364697	MID1	1371	1
	11	102666020	0	MMP1	1364	0
X		102931156	0.000757576	MORF4L2	1320	1
X		14891919	0.000373134	MOSPD2	1340	1
X		154007495	0.001819505	MPP1	1374	4
	17	48447898	0	MRPL27	1378	0
	19	3765175	0	MRPL54	1354	0
	6	43639564	0	MRPS18A	1350	0

	4	3255056	0	MSANTD1	1376	0
X		11783794	0.000731529	MSL3	1367	1
X		64936690	0.000367647	MSN	1360	1
X		149924279	0.001094092	MTMR1	1371	2
X		63444307	0.002549162	MTMR8	1373	4
X		105449559	0.003321033	MUM1L1	1355	7
X		3227852	0.003988397	MXRA5	1379	7
	22	37271783	0	NCF4	1370	0
	5	140025192	0	NDUFA2	1372	0
X		17705913	0.003265602	NHS	1378	6
X		71359350	0.000729395	NHSL2	1371	2
	9	95887243	0	NINJ1	1369	0
X		119070593	0.000735294	NKAP	1360	1
X		118725133	0.000366569	NKRF	1364	1
	5	137464973	0	NME5	1338	0
X		105125718	0.002581121	NRK	1356	6
X		152037559	0.000375375	NSDHL	1332	1
	17	722726	0	NXN	1352	0
X		128694603	0.001815541	OCRL	1377	4
X		13762603	0.001093294	OFD1	1372	2
	6	74079072	0	OOEP	1341	0
X		67421534	0.000366032	OPHN1	1366	1
	1	203465312	0	OPTC	1364	0
	1	159505487	0	OR10J5	1377	0
X		130678228	0.000746269	OR13H1	1340	1
	17	3301403	0	OR1E1	1367	0
	14	20528682	0	OR4L1	1363	0
	11	4945161	0	OR51G1	1355	0
	11	55761479	0	OR5F1	1376	0
X		38226630	0.001096491	OTC	1368	2
X		48780463	0.000743494	OTUD5	1345	1
	15	31776779	0	OTUD7A	1324	0
	17	3808528	0	P2RX1	1311	0
X		69479080	0.000372856	P2RY4	1341	1
X		90691142	0.000733676	PABPC5	1363	2
X		110389743	0.000379363	PAK3	1318	1
	22	50615954	0	PANX2	1320	0
X		150790002	0.002543605	PASD1	1376	5
X		75395378	0.00109569	PBDC1	1369	2
X		91090529	0.000366838	PCDH11X	1363	1
X		99551517	0.004716981	PCDH19	1378	7
	5	140257401	0	PCDHA12	1315	0
	5	140537010	0	PCDHB17	1339	0
X		19369499	0.000735294	PDHA1	1360	1
X		24521590	0.00109569	PDK3	1369	2
	6	143800250	0	PEX3	1372	0
X		54987350	0.000377644	PFKFB1	1324	1
X		77369278	0.000739645	PGK1	1352	1

X	22115139	0.001451379	PHEX	1378	3
X	133511691	0.000373692	PHF6	1338	1
X	54019218	0.000369549	PHF8	1353	1
X	71812955	0.001093294	PHKA1	1372	2
X	18911701	0.003265602	PHKA2	1378	7
X	15342929	0.000366032	PIGA	1366	1
1	46511640	0	PIK3R3	1364	0
X	48772452	0.001463058	PIM2	1367	3
X	15477811	0.000369004	PIR	1355	1
1	20501558	0	PLA2G2C	1347	0
X	133700358	0.000365764	PLAC1	1367	1
X	153694164	0.001461988	PLXNA3	1368	3
X	153035611	0.001096491	PLXNB3	1368	2
X	152937095	0.000733676	PNCK	1363	2
X	7894066	0.000372856	PNPLA4	1341	1
X	84563194	0.001461988	POF1B	1368	3
X	24746043	0.002545455	POLA1	1375	5
7	76240786	0	POMZP3	832	0
X	82763606	0.000381388	POU3F4	1311	1
X	49143086	0.000735294	PPP1R3F	1360	2
X	48759238	0.001102941	PQBP1	1360	2
X	48929654	0.001107829	PRAF2	1354	2
10	120931928	0	PRDX3	1371	0
X	106890916	0.000732064	PRPS1	1366	1
X	37312686	0.000364431	PRRG1	1372	1
X	150868605	0.002197802	PRRG3	1365	4
X	23353208	0.001450326	PTCHD1	1379	3
18	12817224	0	PTPN2	1322	0
7	140111745	0	RAB19	1365	0
X	69502404	0.000736377	RAB41	1358	1
6	150209717	0	RAET1E	1065	0
X	17819557	0.001119403	RAI2	1340	2
16	7568296	0	RBFOX1	1361	0
X	47041600	0.001107011	RBM10	1355	3
X	48435464	0.00036523	RBM3	1369	1
X	114424200	0.003335804	RBMXL3	1349	5
X	153206948	0.00110538	RENBP	1357	3
X	17086586	0.000749064	REPS2	1335	1
X	109693861	0.005076142	RGAG1	1379	8
X	71350775	0.000377929	RGAG4	1323	1
X	46949336	0.001096491	RGN	1368	2
12	122217507	0	RHOF	1343	0
14	21511570	0	RNASE7	1359	0
X	106016247	0.000366569	RNF128	1364	1
6	30038902	0	RNF39	1332	0
11	71628707	0	RP11-849H4.2	1355	0
X	46719495	0.000364964	RP2	1370	1
17	5331391	0	RPAIN	1363	0

X	38178134	0.00036523	RPGR			1369	1
X	153629178	0.000762195	RPL10			1312	1
X	100646014	0.000727273	RPL36A			1375	2
X	20190948	0.000367918	RPS6KA3			1359	1
X	83352795	0.001454545	RPS6KA6			1375	3
3	9885671	0	RPUSD3			1319	0
X	18662593	0.000363901	RS1			1374	1
1	151958623	0	S100A10			1378	0
X	134987528	0.001452433	SAGE1			1377	3
X	128926390	0.000734214	SASH3			1362	2
X	84363812	0.000373134	SATL1			1340	1
11	61981209	0	SCGB2A1			1371	0
12	113871947	0	SDSL			1351	0
X	118752675	0.001090116			Sep-06	1376	3
19	48284163	0	SEPW1			1317	0
X	105278353	0.001827485	SERPINA7			1368	3
12	123880918	0	SETD8			1327	0
13	23898509	0	SGCG			694	0
7	101960936	0	SH2B2			1347	0
X	19587293	0.000727273	SH3KBP1			1375	2
9	37974810	0	SHB			1361	0
3	72873611	0	SHQ1			1354	0
X	9862897	0.001467351	SHROOM2			1363	3
X	50350543	0.001455604	SHROOM4			1374	3
17	57196720	0	SKA2			1349	0
X	153716036	0.00037679	SLC10A3			1327	1
12	16347308	0	SLC15A5			1039	0
X	73751371	0.00075815	SLC16A2			1319	1
9	19576949	0	SLC24A2			476	0
X	118544227	0.00073046	SLC25A43			1369	1
X	48319079	0.001108647	SLC38A5			1353	2
8	142222637	0	SLC45A4			1346	0
15	65345444	0	SLC51B			1371	0
X	115582802	0.000366032	SLC6A14			1366	1
X	70147405	0.000374532	SLC7A3			1335	1
X	144904217	0.003263234	SLITRK2			1379	7
X	128602810	0.003991292	SMARCA1			1378	7
12	27623575	0	SMCO2			1349	0
X	134125252	0.000377929	SMIM10			1323	1
17	76354621	0	SOCS3			1350	0
X	139586552	0.000373692	SOX3			1338	1
X	142795541	0.000755858	SPANXN2			1323	1
X	57021195	0.000737463	SPIN3			1356	1
12	53460140	0	SPRYD3			1377	0
5	112198241	0	SRP19			1338	0
X	153046783	0.002581121	SRPK3			1356	5
X	38016228	0.001466276	SRPX			1364	2
X	123196794	0.001454545	STAG2			1375	3

X	67932771	0.004734159	STARD8	1373	5
X	7194120	0.002178649	STS	1377	4
2	108872071	0	SULT1C3	1365	0
9	136201228	0	SURF6	1365	0
X	49049746	0.000375094	SYP	1333	1
X	99942220	0.001451379	SYTL4	1378	4
X	37935903	0.001461988	SYTL5	1368	3
X	30873355	0.001091703	TAB3	1374	2
X	70597507	0.002900653	TAF1	1379	4
X	100532693	0.001828822	TAF7L	1367	3
X	77388918	0.000729927	TAF9B	1370	2
X	48417634	0.000372578	TBC1D25	1342	1
X	106065293	0.001094891	TBC1D8B	1370	2
X	9679740	0.000368189	TBL1X	1358	1
X	79278630	0.002541757	TBX22	1377	5
X	102586444	0.000733138	TCEAL7	1364	2
X	13680647	0.00147929	TCEANC	1352	3
22	31010409	0	TCN2	1344	0
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11	64067889	0	TEX40	1353	0
X	132352161	0.000370645	TFDP3	1349	1
X	48898094	0.000745712	TFE3	1341	1
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X	48754118	0.000369276	TIMM17B	1354	1
X	12904619	0.001093294	TLR7	1372	3
X	12937384	0.001814224	TLR8	1378	3
X	38525498	0.000364964	TM4SF2	1370	1
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X	148690442	0.000369276	TMEM185A	1354	1
X	153247668	0.001466276	TMEM187	1364	4
7	86828370	0	TMEM243	1352	0
X	102968611	0.001451379	TMEM31	1378	2
X	34657436	0.000380228	TMEM47	1315	1
X	154743698	0.000370645	TMLHE	1349	1
X	99848901	0.001093294	TNMD	1372	2
11	1956136	0	TNNT3	1344	0
9	140087044	0	TPRN	1344	0
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6	30122018	0	TRIM10	1346	0
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17	73888431	0	TRIM65	1345	0
X	54950053	0.003265602	TRO	1378	7
X	111156026	0.000729395	TRPC5	1371	1
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X	54469885	0.000368189	TSR2	1358	1
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X	118977178	0.000737463	UPF3B	1356	1
X	47101087	0.000733138	USP11	1364	2
X	132159547	0.004354136	USP26	1378	7
X	49645898	0.000374813	USP27X	1334	1
X	129059100	0.000760456	UTP14A	1315	1
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X	48929654	0.000371747	WDR45	1345	1
X	54259296	0.002904866	WNK3	1377	6
X	10085421	0.00074129	WWC3	1349	2
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X	134481327	0.001090116	ZNF449	1376	2
X	47918693	0.001118568	ZNF630	1341	2
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Reagent	Source
polyclonal anti-OTULIN	Cell Signaling Technology
polyclonal anti-OTULIN	Abcam
polyclonal anti-HOIP	Abcam
polyclonal anti-HOIP	Proteintech
monoclonal anti-SHARPIN (Clone 4DP5B)	Cell Signaling Technology
monoclonal anti-HOIL1 (Clone E-2)	Santa Cruz
polyclonal anti-NEMO	Cell Signaling Technology
monoclonal anti-CYLD (Clone E-10)	Santa Cruz
monoclonal anti-Caveolin-1 (Clone D46G3)	Cell Signaling Technology
monoclonal anti-Caveolin-2 (Clone D4A6)	Cell Signaling Technology
monoclonal anti-Gelsolin (Clone D9W8Y)	Cell Signaling Technology
polyclonal anti-ADAM10	Cell Signaling Technology
monoclonal anti-FLAG-M2	Sigma
monoclonal anti-beta-actin (Clone 13E5)	Cell Signaling Technology
monoclonal anti-vinculin (Clone 7F9)	Santa Cruz
polyclonal anti-mouse IgG, HRP–linked	GE Healthcare Life Sciences
polyclonal anti-rabbit IgG, HRP-linked	GE Healthcare Life Sciences
monoclonal anti-IKKb (Clone 62AT216)	Abgent
monoclonal anti-IkBa (Clone L35A5)	Cell Signaling Technology
monoclonal anti-P-IKKa//b (Ser176/180) (Clone 16A6)	Cell Signaling Technology
monoclonal anti-ubiquitin (Clone P4D1)	Cell Signaling Technology
monoclonal anti-LinUb (Clone LUB9)	LifeSensors
monoclonal anti-K63-Ub (Clone APU3)	EMD Millipore
monoclonal anti-Caveolin1 (Clone E249)	Abcam
monoclonal anti-Caveolin1 (Clone 2297)	BD Biosciences
monoclonal anti-ADAM10 (Clone SHM14)	Biolegend
monoclonal anti-LinUb (Clone 1F11/3F5/Y102L)	Genentech
polyclonal anti-human-IgG-AF555	Thermo
polyclonal-anti-mouse-IgG-AF488	Thermo
polyclonal-anti-rabbit-IgG-AF568	Thermo
Anti-CD45 89Y-conjugated (Clone HI30)	Fluidigm
Anti-CD57 113In-conjudated (Clone HCD57)	BioLegend
Anti-CD11c 115In-conjudated (Clone Bu15)	BioLegend
Anti-CD33 141Pr-conjugated (Clone WM53)	BioLegend
Anti-CD19 142Nd-conjugated (Clone HIB19)	BioLegend
Anti-CD45RA 143Nd-conjudated (Clone HI100)	BioLegend
Anti-CD141 144Nd-conjugated (Clone M80)	BioLegend
Anti-CD4 145Nd-conjugated (Clone RPA-T4)	BioLegend
Anti-CD8 146Nd-conjugated (Clone RPA-T8)	BioLegend
Anti-CD20 147Sm-conjugated (Clone 2H7)	BioLegend
Anti-CD16 148Nd-conjugated (Clone 3G8)	BioLegend
Anti-CD127 149Sm-conjugated (Clone A019D5)	Fluidigm
Anti-CD1c 150Nd-conjugated (Clone L161)	BioLegend
Anti-CD123 151Eu-conjugated (Clone 6H6)	BioLegend

Anti-CD66b 152Sm-conjugated (Clone G10F5)	BioLegend
Anti-PD-1 153Eu-conjugated (Clone EH12.2H7)	BioLegend
Anti-CD86 154Sm-conjugated (Clone IT2.2)	BioLegend
Anti-CD27 155Gd-conjugated (Clone O323)	BioLegend
Anti-CCR5 156Gd-conjugated (Clone J418F1)	BioLegend
Anti-CD117 158Gd-conjugated (Clone 104D2)	BioLegend
Anti-CD24 159Tb-conjugated (Clone ML5)	BioLegend
Anti-CD14 160Gd-conjugated (Clone M5E2)	BioLegend
Anti-CD56 161Dy-conjugated (Clone B159)	BD Biosciences
Anti-gdTCR 162Dy-conjugated (Clone REA591)	Miltenyi
Anti-CRTH2 163Dy-conjugated (Clone REA598)	Milentyi
Anti-CLEC12A 164Dy-conjugated (Clone 50C1)	BioLegend
Anti-CCR6 165Ho-conjugated (Clone G034E3)	BioLegend
Anti-CD25 166Er-conjugated (Clone M-A251)	BioLegend
Anti-CCR7 167Er-conjugated (Clone G043H7)	BioLegend
Anti-CD3 168Er-conjugated (Clone UCHT1)	BioLegend
Anti-CX3CR1 169Tm-conjugated (Clone 2A9-1)	BioLegend
Anti-CD38 170Er-conjugated (Clone HB-7)	BioLegend
Anti-CD161 171Yb-conjugated (Clone HP-3G10)	BioLegend
Anti-CD209 172Yb-conjugated (Clone 9E9A8)	BioLegend
Anti-CXCR3 173Yb-conjugated (Clone REA232)	Miltenyi
Anti-HLADR 174Yb-conjugated (Clone L243)	BioLegend
Anti-CCR4 176Yb-conjugated (Clone 205410)	R&D Systems
Anti-CD11b 208Bi-conjugated (Clone ICRF44)	Fluidigm
Live/dead 103Rh-conjugated	Fluidigm
DNA1 191Ir-conjugated	Fluidigm
DNA2 193Ir-conjugated	Fluidigm
anti-CD3 V450-conjugated (Clone 17A2)	BD Biosciences
anti-CD56 APC-Cy7-conjugated (Clone HCD56)	BioLegend
anti-CD14 PE-Cy7-conjugated (Clone M5E2)	BD Biosciences
anti-CD19 FITC-conjugated (Clone HIB19)	BioLegend
anti-CD19 PerCP-Cy5.5-conjugated (Clone SJ25C1)	BD Biosciences
anti-phospho-P65 PE-conjugated (K10-895.12.50)	BD Biosciences
anti-IL-1b FITC-conjugated (Clone AS10)	BD Biosciences
anti-IL-6 APC-conjugated (Clone MP5-20F3)	BD Biosciences
anti-IL-8 APC-conjugated (Clone E8N1)	BioLegend
anti-TNF AF700-conjugated (Clone MAb11)	BioLegend
anti-MIP1a PE-conjugated (Clone 11A3)	BD Biosciences
anti-MIP1b FITC-conjugated (Clone D21-1351)	BD Biosciences
anti-ADAM10 APC-conjugated (Clone SHM14)	BioLegend

Identifier	Application
Cat# 14127, RRID:AB_2576213	Western blot
Cat# ab151117, RRID:AB_2728115	Western blot
Cat# ab46322, RRID:AB_945269	Western blot
Cat# 16289-1-AP, RRID:AB_2878239	Western blot
Cat# 12541, RRID:AB_2797949	Western blot
Cat# sc-365523, RRID:AB_10841591	Western blot
Cat# 2685, RRID:AB_2124829	Western blot
Cat# sc-74435, RRID:AB_1122022	Western blot
Cat# 3267, RRID:AB_2275453	Western blot
Cat# 8522, RRID:AB_10950491	Western blot
Cat# 12953, RRID:AB_2632961	Western blot
Cat# 14194, RRID:AB_2798420	Western blot
Cat# F3165, RRID:AB_259529	Western blot
Cat# 5125, RRID:AB_1903890	Western blot
Cat# sc-73614, RRID:AB_1131294	Western blot
Cat# NA931, RRID:AB_772210	Western blot
Cat# NA934, RRID:AB_772206	Western blot
Cat# AM8109a, RRID:AB_2233422	Western blot
Cat# 7543, RRID:AB_11129663	Western blot
Cat# 2697, RRID:AB_2079382	Western blot
Cat# 3936, RRID:AB_331292	Western blot
Cat# AB130, RRID:AB_2576211	Western blot
Cat# 05-1308, RRID:AB_1587580	Western blot, Immunofluorescence
Cat# ab32577, RRID:AB_725987	Immunofluorescence
Cat# 610406, RRID:AB_397788	Immunofluorescence
Cat# 352702, RRID:AB_10897813	Immunofluorescence
	Immunofluorescence
Cat# A21433, RRID:AB_1500626	Immunofluorescence
Cat# A11001, RRID:AB_2534069	Immunofluorescence
Cat# A21069, RRID:AB_141416	Immunofluorescence
Cat# 3089003B, RRID:AB_2661851	CyTOF
Cat# 322302, RRID:AB_2661815	CyTOF
Cat# 337202, RRID:AB_1236381	CyTOF
Cat# 303410, RRID:AB_2074243	CyTOF
Cat# 302202, RRID:AB_2661817	CyTOF
Cat# 304102, RRID:AB_314406	CyTOF
Cat# 344102, RRID:AB_2661788	CyTOF
Cat# 300502, RRID:AB_314070	CyTOF
Cat# 301002, RRID:AB_2661818	CyTOF
Cat# 302302, RRID:AB_314250	CyTOF
Cat# 302014, RRID:AB_314214	CyTOF
Cat# 3149011B, RRID:AB_2661792	CyTOF
Cat# 331502, RRID:AB_2661820	CyTOF
Cat# 306002, RRID:AB_2661822	CyTOF

Cat# 305102, RRID:AB_2661823	CyTOF
Cat# 329926, RRID:AB_11147365	CyTOF
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Cat# 302802, RRID:AB_2661825	CyTOF
Cat# 359102, RRID:AB_2562457	CyTOF
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Cat# 301810, RRID:AB_314192	CyTOF
Cat# 555513, RRID:AB_395903	CyTOF
Cat# 048-785	CyTOF
Cat# 130-122-305, RRID:AB_2801886	CyTOF
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Cat# 353256, RRID:AB_2814291	CyTOF
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Cat# 3209003B, RRID:AB_2687654	CyTOF
Cat# 201103A	CyTOF
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Cat# 201192A	CyTOF
Cat# 560366, RRID:AB_1645569	Flow Cytometry
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Cat# 302205, RRID:AB_314235	Flow Cytometry
Cat# 340951, RRID:AB_400192	Flow Cytometry
Cat# 558423, RRID:AB_647222	Flow Cytometry
Cat# 340515, RRID:AB_400438	Flow Cytometry
Cat# 561441, RRID:AB_10679121	Flow Cytometry
Cat# 511410, RRID:AB_893464	Flow Cytometry
Cat# 502928, RRID:AB_2561315	Flow Cytometry
Cat# 554730, RRID:AB_395532	Flow Cytometry
Cat# 560565, RRID:AB_1645489	Flow Cytometry
Cat# 352706, RRID:AB_2563173	Flow Cytometry

Buffer
Whole cell lysis buffer A
Whole cell lysis buffer B
Whole cell lysis buffer C
Whole cell lysis buffer D
Whole cell lysis buffer E

Composition
50 mM Tris, pH 7.5, 135 mM NaCl, 1 M MgCl2, 10% glycerol, 7 M urea, N-ethylmaleimide 10 mM, 1% Triton X-1(
50 mM Tris pH 7.5, 150 mM NaCl, 1% NP40, 1 mM EDTA, 0.1% SDS, supplemented with cOmplete Protease Inhib
50 mM Tris pH 7.5, 150 mM NaCl, 1% NP40, 1 mM EDTA, supplemented with cOmplete Protease Inhibitor Cockta
50 mM Tris pH 7.5, 150 mM NaCl, 1% Triton X-100, 1 mM EDTA, supplemented with cOmplete Protease Inhibito
30 mM Tris pH 7,5, 120 mM NaCl, 2 mM KCl, 2 mM EDTA, 1% NP-40; 5 mM N-ethylmaleimide (NEM), suppleme

Application
Linear deubiquitination assays in HEK293T cells
Whole cell lysis of HEK293T cells
Whole cell lysis in primary dermal fibroblasts and PBMCs
Whole cell lysis in immortalized fibroblasts
Linear ubiquitin-selective tandem Ub-binding entity assays in immortalized fibroblasts